APRIL 2024 VOLUME 21 ISSUE 4

THE LOGGER'S BARK

a magazine

Radio Club of Tacoma

Elecraft's new

POCKET *Kilowatt !*

p. 78

Rockstar Joe Walsh WB6ACU

photo by Dave W7UUU, April 2002

At Joe's house in Studio City, CA

In this issue:

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W7DK
Radio Club of Tacoma
Founded 1916
ARRL
RADIO CLUB OF TACOMA
W7DK

www.W7DK.org

Radio Club of Tacoma
1249 South Washington Street
Tacoma, WA 98405
253-759-2040

Open House every Saturday
10:00 AM to 2:00 PM
Last Saturday every month is
Swapmeet Day

W7DK 2024 OFFICERS AND COMMITTEE LEADERS

EXECUTIVE COMMITTEE:

President:	Mike Mikuchonis W7XTZ
Vice President:	Adam Barbera W2NCC
Secretary:	Gary McAdams WG7X
Treasurer:	Steve Dightman AF7YD

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Board:	Paul Matney W7PFU
Board:	Doug Schafer AB7DG
Board:	Red Cranefield WB7EC
Board:	Phil Pia K7PIA

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Membership:	George K7GRS/Mike W7XH
Salmon Run:	George K7GRS/Mike W7XH
Infotech/IT:	Randy WB4SPB
HF Operations:	Phil K7PIA
Facilities:	Adam W2NCC
Property Mgmt.	Red WB7EC
Museum:	Dan KD7SV
Planning:	Manny AD7MA
POTA:	BJ WA7WJR
General Meeting:	Dave W7UUU
Bark layout & Editor:	Dave W7UUU
Assistant/Copy Editor:	Anne N7ANN

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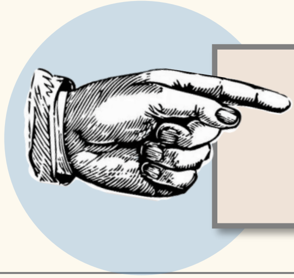
But don't stop there! Each issue is 50 or more pages of fun and cool



HAVE A SUBMISSION FOR OUR NEXT ISSUE?

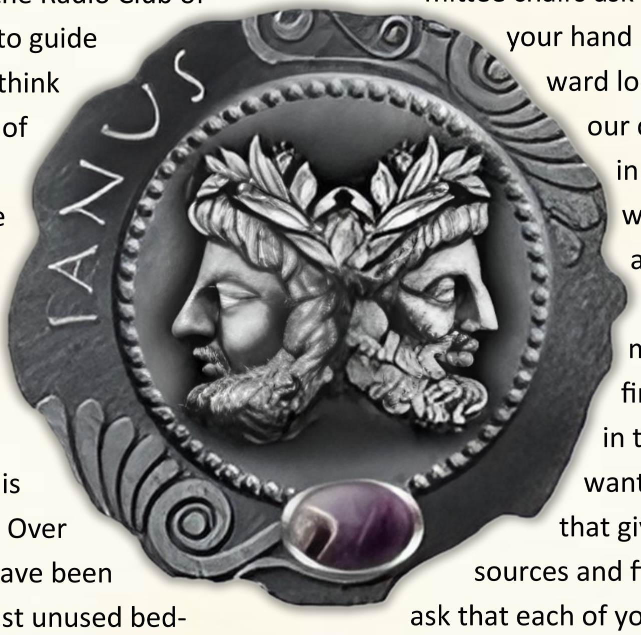
loggersbark@gmail.com

PRESIDENT'S CORNER

Monthly ruminations from our President

Mike Mikuchonis
W7XTZ

WHAT THE HECK is this image and why is it here in our newsletter? This is an ancient coin representation of [Janus, the two-faced Roman god]() of beginnings, transitions and endings. It serves as a reminder for us to always be sure to keep one face looking to the future but another always glancing to the past. The goal of any organization like the Radio Club of Tacoma is to work as a team to guide us into the future. But I also think we should always be mindful of the past as well. Looking back, to our beginnings at the turn of the 20th century, the club started with just a few Stadium High School students that met maybe at school and in one of their homes to explore together this new technology called radio. Over the years, numerous places have been used for meetings. Initially just unused bedrooms in homes, then on to various public places, until in the 1950s, a small group got together and pledged on a napkin that they would guarantee a mortgage to buy our current clubhouse. As a result of their forward-looking ideas, we now have a building that we own and can do with whatever we want! Not many radio clubs in the USA have their own clubhouse. Kudos to past members who had the vision for a permanent place to gather, learn, train, operate radios, and just plain have fun. In the modern era, some equally forward-looking members on the Property Management Team, Salmon Run Pledge drive committee, and Membership Team have been able to raise money to maintain our building and grounds. It's always a group effort so it's not just members of these teams that contribute to the financial well being of the Club. All of you as valued members play a role small or large in how we do. When the committee chairs ask for help maybe you could raise your hand and volunteer to help that forward looking face of Janus guide us to our collective future. You can dive in as deep or shallow as you want, spend as much time as or as little, as your life and priorities allow. But every bit of member contributions, both financial as well as just pitching in to get things done, counts. I want to sincerely thank everyone that gives of their time, their resources and finances, large and small. And I ask that each of you in kind be sure to thank your fellow members for *their* efforts. I know I try to do that whenever possible. In closing, use the idea that this ancient symbol of Janus brings us, that every future will one day be in the past. We must always strive to create that future together that will have the greatest likelihood of being a fond view of the past by those who come long after we are gone.



Until next month, stay well and best of 73 to all

Mike Mikuchonis W7XTZ
President

FROM THE DESK OF THE VP

Adam Barbera
W2NCC

Insights from our Vice President

HAMSCI FESTIVALS of Eclipse Ionospheric Science

Amateur radio is not only thriving as a hobby but also playing a crucial role in scientific research. The Ham Radio Science Citizen Investigation (HamSCI) is a team of ham radio users and scientists working together on projects that study the ionosphere using amateur radio techniques.

One event that HamSCI hosts is the "Festivals of Eclipse Ionospheric Science." These festivals happen during solar eclipses. The goal is to study how these events affect the ionosphere. The main aim of the HamSCI Festivals of Eclipse Ionospheric Science is to use the unique conditions of a solar eclipse to study the ionosphere. During a solar eclipse, there's a sudden drop in solar radiation. This can cause changes in the ionosphere that we can observe. By getting a large number of amateur radio operators to work together across the eclipse path, researchers can collect valuable data on how the ionosphere reacts to this temporary change.

HamSCI
http://hamsci.org

Amateur radio operators have an important role during these festivals. They transmit signals at different frequencies before, during, and after the eclipse. Scientists then study these signals to learn about things like changes in ionospheric density, how signals travel, and how radio waves behave. The combined effort of many operators allows for a complete dataset. This can give insights into how the ionosphere behaves during an eclipse.

The data collected during the HamSCI Festivals of Eclipse Ionospheric Science helps to improve our understanding of ionospheric physics and space weather phenomena. By studying how the ionosphere reacts to solar eclipses, scientists can make better models predicting space weather events. This is important for satellite communications, GPS systems, and other technologies that need accurate ionospheric conditions.

In conclusion, the HamSCI Festivals of Eclipse Ionospheric Science are a unique chance for amateur radio fans and professional scientists to work together. They investigate the effects of solar eclipses on the ionosphere. By using the combined power of radio operators, we can collect valuable data. This improves our knowledge of how the ionosphere behaves during celestial events.

Amateur radio operators can take part in the HamSCI festival on April 8, 2024. They can do various activities such as the Time Delay of Arrival (TDOA) event. This involves transmitting, receiving, and recording signals on specific HF bands during the eclipse. This helps to study its effect on ionospheric dynamics.

To join in, operators are encouraged to pre-register. They can find specific operating procedures and updates on the HamSCI Google Group. For example, they might need to establish QSOs with other stations, record audio clips, or transmit their own signals for others to receive and record.

For more information or to show interest in participating, people can contact HamSCI by emailing hamsci@hamsci.org. Also, updates and further instructions are regularly posted on the HamSCI website and Google Group. It's a great chance for amateur radio fans to contribute to scientific research while enjoying their hobby.

Adam Barbera W2NCC
Vice President

Photo: © Jeff Geerling KF0MYB

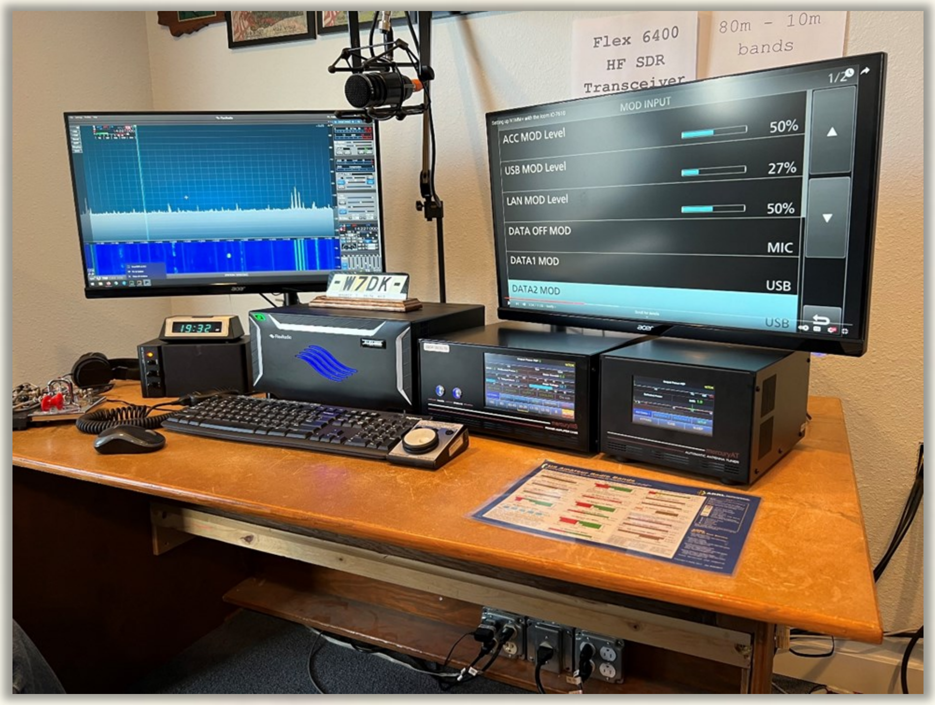
SECRETARY'S REPORT

W7DK Secretary—Gary WG7X

BUDGETS AND NEW EQUIPMENT

Those who might have been paying attention will have noticed that the various RCT committees were asked to submit budgets for 2024. This has not been done for years, and it is something that should have been a part of our normal operations for a long time.

That said, it was easy for the usual standing committees to submit budgets: Library, Membership, Museum, Em-Comm, Info Tech (IT), Planning, Property Management, Repeater, HF and Facilities.



All the committees that had budgets below the $5000 dollar amount can be approved by the board and most of them needed no further discussion. The exceptions were HF and Facilities committees.

These committees needed to submit not only a budget, but their reasons for asking for a much larger budget than normal. The facilities committee is easy: our infrastructure needs to be kept in good order. Infrastructure includes the clubhouse, the shed, the garage and the towers and antennas. Maintenance on the big tower is way past due and is a little over $5K or so. This was an easy request to approve.

Not so much with the High Frequency committee's budget request which came in a bit over $8,000! This was harder to swallow for some folks. Total justification for these asks (HF and Facilities) were to be published in The Loggers Bark.

Now, I must admit that I did not realize that the actual budget requests were supposed to be attached to the various meeting notes. I sent them to your esteemed Bark Editor without the proposals. This made a lot of folks feel that they were being kept in the dark. I apologize for this and will try to be more open in future but if folks really want to be in-the-know, they only have to attend the meetings - Either in person or via Zoom.

So, back to the HF committee request. We (HF committee) have wanted to modernize the HF equipment for quite some time. We have been discussing this because the existing equipment was showing its age and was becoming hard to keep running, especially our big

SECRETARY'S REPORT

W7DK Secretary—Gary WG7X

tube amps. So, we began looking at various alternatives.

During this time, a couple of big events happened: Adam Barbera W2NCC took it on himself to independently find funding for the purchase of an Icom IC-7610. He did this on his own without asking for funds from the club. So, we then had a brand-new IC-7610 to play with. This radio was quickly adopted by the membership and is now one of the most popular radio stations in the HF room.

Icom IC-7610 in the HF Room

This brings us to the next most popular radio station in the HF room: our complement of Flex and Mercury equipment. Unfortunately, it took the passing of one of our great club members to accomplish this update. PJ Hicks N7PH became a Silent Key and willed his entire station to the Radio Club of Tacoma. We acquired a Flex 6600, a Flex 6400M, an Icom IC-7300 and a Mercury IIIs amp with the Mercury ATS automatic tuner. This saved us a large amount of money and we will be using it with profound gratitude. (see picture on previous page).

Which brings us to the budget request for additional equipment.

Most of you probably already know that Phil Pia, K7PIA has been generously allowing us (W7DK) to use his Elecraft KPA-500 amplifier and associated tuner for quite some time and we really appreciate that. Thanks Phil!

So, we decided that it was time for W7DK to try to acquire equivalent replacements for Phils amp and tuner. We decided to go all solid state and as automatic as possible to reduce the possibility of equipment damage. We've all seen how well the Elecraft equipment works in this regard, and we need that kind of ability in the future.

That is not to say we expect damage to occur, just that we can have a fully modern kilowatt class station at both operating desks in the HF room. All the equipment we will be using in the future is good at self-protecting and taking itself offline in the event of a problem. That is one major reason why we looked at modern solid-state equipment.

W7DK is one of the oldest ham radio clubs in the USA, and we should be able to show our members and visitors that we keep up with the state of the art in ham radio as much as possible. We also (the HF committee) have been asked by various members to introduce them to contesting. We will be glad to do that, and it will also benefit the club with our various activities like the Salmon Run, the Camp Quest NW activities, and just getting the "Mighty DK's" station on the air on weekends.

73, Gary WG7X

HF COMMITTEE REPORT

Various Contributors

WHY WE ARE KEEPING IT ALL

Regarding: the bequest from PH Hicks, N7PH to RCT

By Mike Drorbaugh W7MKE, HF Committee Member

Some members have rightly inquired as to why RCT needs to keep all or most of PJ's radios. Doesn't the club have enough already? Why not sell some? Here is the 411 on some of the HF committee's thinking and planning. Keep in mind that nothing is cast in concrete and if the situation changes, plans can change too. Let's try this and see how it works.

Heres' what we have:

Currently in use:

IC-7610 Transceiver	Purchased and donated to the club at no cost through mostly Adam W2NCC 's efforts. Currently considered one of the most popular transceivers.
KPA-500 Amplifier	Belongs to Phil Pia K7PIA and is on loan. Used with IC-7610.
KPA autotuner	Belongs to Phil Pia K7PIA and is on loan. Works with KPA-500 amp.
Flex 6600	Bequest from N7PH an upgrade from the Flex 6500 and another top-of-the-line radio.
Mercury IIIS Amplifier	Bequest from N7PH (replaced the Drake L-4B) has several auto protect features.
Mercury autotuner	Bequest from N7PH (Works with Mercury Amp).

Currently On Order:

Palstar LA-1K amplifier	Will be used to replace Phil Pia's KPA-500 at the IC-7610 station. The Palstar has adequate power and is an upgrade from 500 watts to 1000 watts. It has auto-protective features and was available at a reasonable time at reasonable cost. Palstar has a good reputation for quality.
Palstar HF autotuner	Will be used in conjunction with the LA-1K amplifier.

The Palstar amplifier and autotuners were originally planned to be used at the Flex Station but PJ's bequest allowed us to change that to replace Phil's KPA-500 and not ask for two LA-1K amplifiers.

AS-419 Bandpass Filter	Three bandpass filters from Array Solutions were requested for use at the Icom, Flex and Lou Room stations AND for Field Day use. These are automatic bandpass filters and do not require replacing individual bandpass filters for each band as we now have for Field Day. Yes, they can be damaged if the transceiver auto tuner is used. It is not possible to have everything self-protecting, but this is an easy training issue and easy to label the equipment when installed.

Currently in Inventory:

Elecraft K3S	Was in use before the IC-7600 was acquired. It is thought that because CW operators really like this it would be nice to keep it for Field Day for that purpose.

HF COMMITTEE REPORT

Various Contributors

Flex 6400M	Bequest from PJ and current thinking is to place this at the Lou Room Station. It's a highly visual radio, especially if used on that giant screen. New members and visitors can see it in operation, and it is a good training station and a good station for those who cannot make the stairs for the HF room. Currently that station is under used. Lots of chatter down there but there is lots of chatter in the HF room too on many occasions. This is also a good radio for Field Day.
IC-7300	Bequest from PJ. Many new Hams use this radio. The thinking for now is to make the Flex Station flexible enough to use the 7300 at that station as a training radio. This may change and the 7300 may be considered surplus to needs at a future date. It is not a suitable radio for Field Day.
IC 756 Pro III	Currently used at the Lou Room Station. It doesn't get much use there and will be replaced by the Flex 6400M. This rig has been a work horse at Field Day for several years. It has value there. For that reason, is not currently considered surplus to needs.
Elecraft KX3	Another bequest from PJ. It was requested by POTA for their use and given to them.
IC-7410	Another donated radio that will be good for Field Day.
Qty. 2 IC-718	Both went back to PMT, and I believe both have been sold.
Flex 6500	Was replaced by the Flex 6600 that PJ gave us. It is a great Field Day radio and is a good back-up for the Flex 6600 should we need one. It was recently repaired and checked out by Flex and is in good condition.

Field day:

The last few years we have had five HF stations at Field Day: 10m, 20m phone, 20m CW, 40m, and 80m/15m. Radios available for Field Day and not in use at RCT: IC-756 Pro III, Elecraft K3S, Flex 6500, IC-7410. We will use the Flex 6400M at Field Day too.

Current thinking of the HF committee is that it might be a promising idea to not have to break down all the stations at the club for Field Day.

We want to try to give each FD station manager a club radio, sound cards, tuners, bandpass filters, etc., at least 4 – 6 weeks prior to FD to have them be able to learn the radio, its setup, connections, its modes, etc. Frankly, Field Day may be a problem this year as there may not be as many knowledgeable operators available to set up and run stations. Also, this idea of giving radios out prior to FD to learn about may prove unsatisfactory, so several radios may become surplus to needs and be available to give back to PMT for disposal. There is no immediate need to surplus all these radios right away as our club is currently sound financially.

That is why we are keeping most of the radios for now. Please contact HF committee members if you have ideas. I know we do not always implement each new idea as some are impractical for now or other ideas conflict. We aim to please, but we simply cannot please everyone.

Please Volunteer for Field Day!

73—Mike W7MKE

W7UUU
FROM THE EDITOR'S DESK

IS THIS THING ON?

SO HOW ABOUT *THAT?* The Logger's Bark is now online on QRZ.com and seems to be making quite a splash! You need to know this isn't something I asked of them… it's something *they* asked of our club. While it's no secret I am on staff at QRZ, I never would have asked them to host our newsletter. Rather, when QRZ and GigaParts so graciously donated 15 QRZ-1 Explorer radios to the January Camp Quest event (covered in last month's issue), I simply showed them the article as it was published. Jaime KF7WIS, the CEO of QRZ, was very impressed with the publication and said, "I would really like to see that magazine published monthly on the home page of QRZ".

Big thanks to our Board of Directors for approving this to happen. And worry not—our club's own hosting bandwidth *will not suffer*, as QRZ has agreed to host a slightly redacted version (club minutes removed) on their servers with essentially unlimited bandwidth. What this means folks is the Logger's Bark now truly has a GLOBAL visibility. As of this writing, the Bark has been on QRZ about 5 days, and has had approximately 2260 downloads from around the US and the world. Wow. How cool is that?

I'm hoping that as a club, we can all work together to raise the awareness of the Logger's Bark amongst our OWN MEMBERS! I'm surprised that by now, three months in with the new format, that I still find members not aware of the "New Bark". Spread the word! Think of things YOU, members of W7DK Radio Club of Tacoma, can contribute to keep growing the bark to tell our story, educate new hams, support our own members, bring new members in, and overall advance the art and hobby of amateur radio! Speak up—"the microphone is on"!

SO—welcome to the April edition of the Bark. *Lots* of fun reading here—make a cup O'Joe or grab a beer and spend some sofa time with your iPad and lose yourself in the pages for an hour.

Thanks for reading this—see ya next month

Dave
W7UUU, *editor*

Is This Thing On?

GUEST EDITORIAL

The place to express yourself on a Ham topic

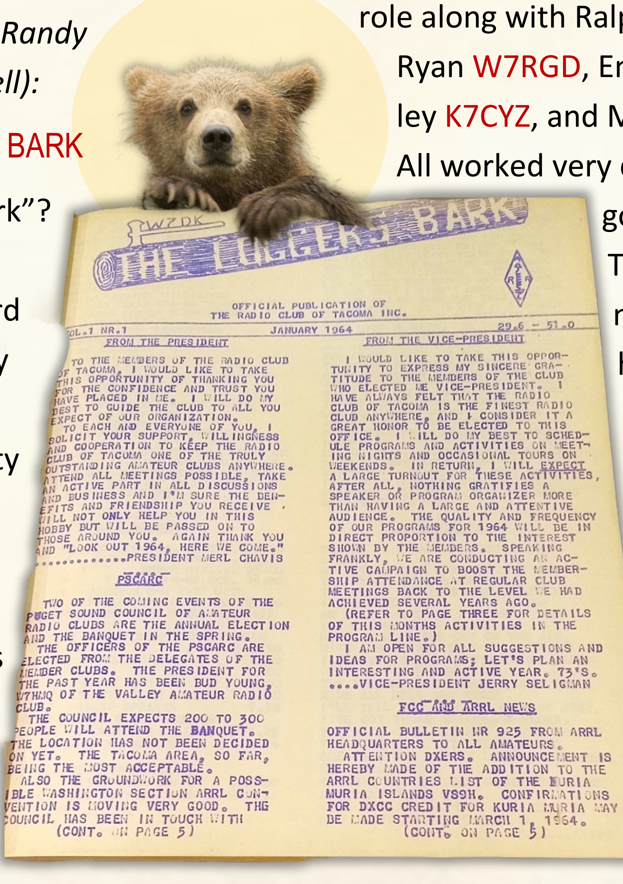
ALMOST THE MOMENT *that the March Logger's Bark hit the front page at QRZ for the first time as a "News" item, I started receiving emails and private messages asking me where the title of the publication comes from.*

Coincidentally, member Randy WB4SPB emailed as well, pretty much saying the same thing… "Now that you've made the Logger's Bark a world-wide phenomenon, there are likely folks who are wondering why it's called that". He did some digging and came up with what follows, slightly edited, as it appears on the W7DK.org website—as submitted by Randy (all photos by Randy as well):

ORIGIN OF THE LOGGER'S BARK

Just what is a "logger's bark"? One colorful club member opined that it was the word "DUPE!" shouted loudly by the member of a contest operating team whose duty it was to maintain the log and the dupe sheet. Not a bad guess, but perhaps our newsletter's name has a more prosaic origin.

It's worth noting, for example, that at the University of Puget Sound, located in Tacoma, sports teams are known as the "Loggers".



W7DK

THE LOGGERS BARK

OFFICIAL PUBLICATION OF
THE RADIO CLUB OF TACOMA INC.

OL.1 NR.1 JANUARY 1964 29.6 - 51.0

FROM THE PRESIDENT

TO THE MEMBERS OF THE RADIO CLUB OF TACOMA, I WOULD LIKE TO TAKE THIS OPPORTUNITY OF THANKING YOU FOR THE CONFIDENCE AND TRUST YOU HAVE PLACED IN ME. I WILL DO MY BEST TO GUIDE THE CLUB TO ALL YOU EXPECT OF OUR ORGANIZATION.

TO EACH AND EVERYONE OF YOU, I SOLICIT YOUR SUPPORT, WILLINGNESS AND COOPERATION TO KEEP THE RADIO CLUB OF TACOMA ONE OF THE TRULY OUTSTANDING AMATEUR CLUBS ANYWHERE. ATTEND ALL MEETINGS POSSIBLE, TAKE AN ACTIVE PART IN ALL DISCUSSIONS AND BUSINESS AND I'M SURE THE BENEFITS AND FRIENDSHIP YOU RECEIVE WILL NOT ONLY HELP YOU IN THIS HOBBY BUT WILL BE PASSED ON TO THOSE AROUND YOU. AGAIN THANK YOU AND "LOOK OUT 1964, HERE WE COME."

...............PRESIDENT MERL CHAVIS

PSCARC

TWO OF THE COMING EVENTS OF THE PUGET SOUND COUNCIL OF AMATEUR RADIO CLUBS ARE THE ANNUAL ELECTION AND THE BANQUET IN THE SPRING.

THE OFFICERS OF THE PSCARC ARE ELECTED FROM THE DELEGATES OF THE MEMBER CLUBS. THE PRESIDENT FOR THE PAST YEAR HAS BEEN BUD YOUNG, W7HMQ OF THE VALLEY AMATEUR RADIO CLUB.

THE COUNCIL EXPECTS 200 TO 300 PEOPLE WILL ATTEND THE BANQUET. THE LOCATION HAS NOT BEEN DECIDED ON YET. THE TACOMA AREA, SO FAR, BEING THE MOST ACCEPTABLE.

ALSO THE GROUNDWORK FOR A POSSIBLE WASHINGTON SECTION ARRL CONVENTION IS MOVING VERY GOOD. THE COUNCIL HAS BEEN IN TOUCH WITH

(CONT. ON PAGE 5)

FROM THE VICE-PRESIDENT

I WOULD LIKE TO TAKE THIS OPPORTUNITY TO EXPRESS MY SINCERE GRATITUDE TO THE MEMBERS OF THE CLUB WHO ELECTED ME VICE-PRESIDENT. I HAVE ALWAYS FELT THAT THE RADIO CLUB OF TACOMA IS THE FINEST RADIO CLUB ANYWHERE, AND I CONSIDER IT A GREAT HONOR TO BE ELECTED TO THIS OFFICE. I WILL DO MY BEST TO SCHEDULE PROGRAMS AND ACTIVITIES ON MEETING NIGHTS AND OCCASIONAL TOURS ON WEEKENDS. IN RETURN, I WILL EXPECT A LARGE TURNOUT FOR THESE ACTIVITIES, AFTER ALL, NOTHING GRATIFIES A SPEAKER OR PROGRAM ORGANIZER MORE THAN HAVING A LARGE AND ATTENTIVE AUDIENCE. THE QUALITY AND FREQUENCY OF OUR PROGRAMS FOR 1964 WILL BE IN DIRECT PROPORTION TO THE INTEREST SHOWN BY THE MEMBERS. SPEAKING FRANKLY, WE ARE CONDUCTING AN ACTIVE CAMPAIGN TO BOOST THE MEMBERSHIP ATTENDANCE AT REGULAR CLUB MEETINGS BACK TO THE LEVEL WE HAD ACHIEVED SEVERAL YEARS AGO.

(REFER TO PAGE THREE FOR DETAILS OF THIS MONTHS ACTIVITIES IN THE PROGRAM LINE.)

I AM OPEN FOR ALL SUGGESTIONS AND IDEAS FOR PROGRAMS; LET'S PLAN AN INTERESTING AND ACTIVE YEAR. 73'S.

....VICE-PRESIDENT JERRY SELIGMAN

FCC AND ARRL NEWS

OFFICIAL BULLETIN NR 925 FROM ARRL HEADQUARTERS TO ALL AMATEURS.

ATTENTION DXERS. ANNOUNCEMENT IS HEREBY MADE OF THE ADDITION TO THE ARRL COUNTRIES LIST OF THE KURIA MURIA ISLANDS VS9H. CONFIRMATIONS FOR DXCC CREDIT FOR KURIA MURIA MAY BE MADE STARTING MARCH 1, 1964.

(CONT. ON PAGE 5)

January 1964 mimeographed edition of the Bark, typed on a Telegraph Mill typewriter

The following is a lightly-edited excerpt from the club's publication "***History of the Radio Club of Tacoma W7DK, From the Beginning Until Just the Other Day***". Copies of this document are available at the W7DK.org website.

The club newsletter, **The Logger's Bark**, was inaugurated in December 1963 and continues to this day. Margie Chavis K7AMJ played a leading role along with Ralph Rawlings W7COP, Dick Ryan W7RGD, Emil Koth K7GPK, Scotty Huntley K7CYZ, and Merl Chavis W7IKG.

All worked very diligently to establish an ongoing record of club activities. The first BARK bore an antenna masthead; the second, however, had a log with an embedded ax. It seems that "LOGGERS BARK" was intended to reflect the club's geographic location in the Pacific Northwest, where the timber and logging industry was foremost.

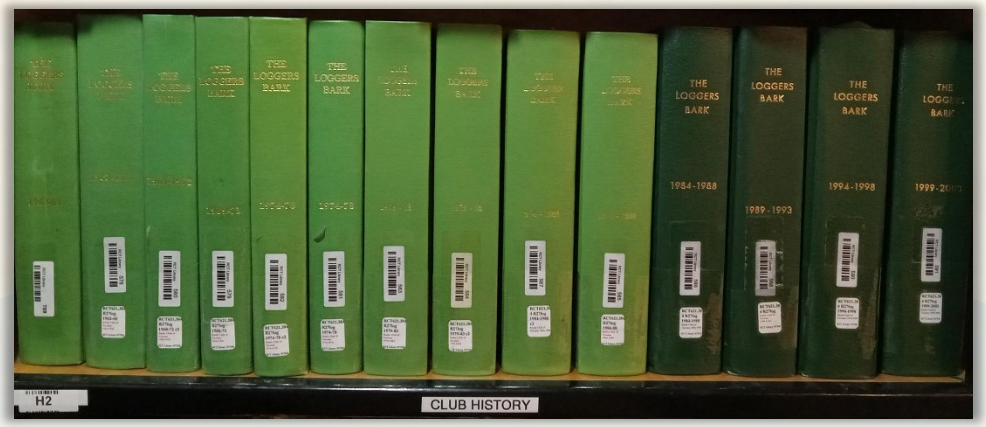
At first, Dick Ryan W7RGD produced the newsletter on a mimeograph machine donated by Max Bice

GUEST EDITORIAL

The place to express yourself on a Ham topic

W7AEA. These early Bark editions are in all caps, as Dick used a "Mill" or telegraph typewriter which only offers upper case letters, to compose them onto the mimeograph stencil. An offset press allowing photos and a more professional product was obtained in July 1964. Editors Emil Koth and Margie Chavis invited members to share news about equipment, homebrewing, and operating.

Regular features were to include FCC and ARRL news, CW discussion, reports from the Puget Sound Council of amateur radio clubs, happenings in **AREC** (Amateur Radio Emergency Corps) and civil defense (including **RACES**).



Decades of hard-bound printed Logger's Barks in the W7DK Doug Oakman Library

Chuck Aufang W7BMG, along with his wife Irma, was a leader in the club's **RACES** activities.

This first issue also provided information on transmitter hunts, operation on VHF, the monthly pinochle session, the swap column, a technical column, and other items of club interest. There were even some (very) bad ham jokes and poetry. A handy calendar of events became a regular feature for many years.

The BARKs kept membership abreast of technical developments in amateur radio and events in the lives of members. Members' personal goings-on were noted for some time in a section called "Slivers and Splinters."

Starting in 1965, BARKs also included "Meet the Loggers," brief sketches of various members.

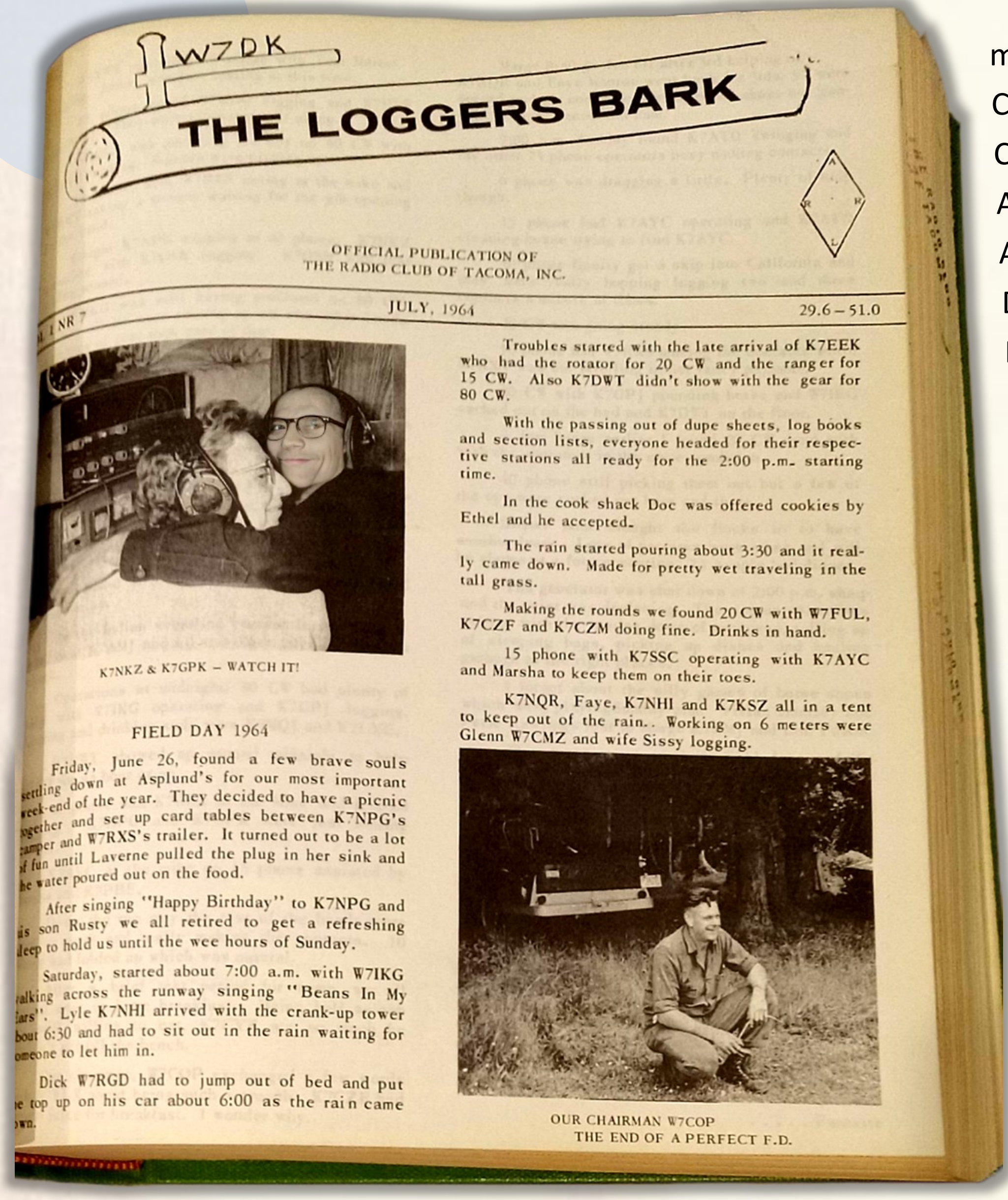
Margie Chavis Beechie K7AMJ was a post-WWII leader in the Women's Auxiliary and played a key role in helping to get the BARK up and running in 1963. Margie's husband at the time was Merl Chavis. Together, the pair were big contributors to W7DK club life.

Besides the BARK, Margie put together materials for the 50th anniversary of the club in 1966. Her scrapbook now resides in the club archives. It provides many insights into events of the first half-century of the club and especially club members and activities from 1945 to the early 1960s. Margie remained a BARK editor into the mid-1970s.

In the working world, Margie worked for the

GUEST EDITORIAL

The place to express yourself on a Ham topic



W7DK

THE LOGGERS BARK

OFFICIAL PUBLICATION OF
THE RADIO CLUB OF TACOMA, INC.

1 NR 7 JULY, 1964 29.6 – 51.0

K7NKZ & K7GPK – WATCH IT!

FIELD DAY 1964

Friday, June 26, found a few brave souls settling down at Asplund's for our most important eek-end of the year. They decided to have a picnic ogether and set up card tables between K7NPG's amper and W7RXS's trailer. It turned out to be a lot f fun until Laverne pulled the plug in her sink and he water poured out on the food.

After singing "Happy Birthday" to K7NPG and is son Rusty we all retired to get a refreshing leep to hold us until the wee hours of Sunday.

Saturday, started about 7:00 a.m. with W7IKG alking across the runway singing "Beans In My ars". Lyle K7NHI arrived with the crank-up tower bout 6:30 and had to sit out in the rain waiting for omeone to let him in.

Dick W7RGD had to jump out of bed and put e top up on his car about 6:00 as the rain came wn.

Troubles started with the late arrival of K7EEK who had the rotator for 20 CW and the ranger for 15 CW. Also K7DWT didn't show with the gear for 80 CW.

With the passing out of dupe sheets, log books and section lists, everyone headed for their respective stations all ready for the 2:00 p.m. starting time.

In the cook shack Doc was offered cookies by Ethel and he accepted.

The rain started pouring about 3:30 and it really came down. Made for pretty wet traveling in the tall grass.

Making the rounds we found 20 CW with W7FUL, K7CZF and K7CZM doing fine. Drinks in hand.

15 phone with K7SSC operating with K7AYC and Marsha to keep them on their toes.

K7NQR, Faye, K7NHI and K7KSZ all in a tent to keep out of the rain.. Working on 6 meters were Glenn W7CMZ and wife Sissy logging.

OUR CHAIRMAN W7COP
THE END OF A PERFECT F.D.

July 1964 edition featuring Field Day events

Tacoma Health Department and then owned and operated a fiber arts store called The Spinning Wheel in Tacoma. Her handiwork was greatly admired at the annual fairs.

Often mentioned "loggers" were Steve Dightman, the Churchwards, the Chavises, Tip Caster, Russ Chryst, William Chovil, Joe Asplund, John Austin, Rich Andersen, Irma Duncan, Dave Edmondson, Darrell Erickson, Tom Gilmore, Dick Hazelmyer, Scotty Huntley, Bob Jenks, Emil Koth, Dr. Del Kohler, Jim Kelly, Lloyd Larson, Dwayne and Patty Lewis, Jim Marshburn, Roy Monroe, Hunt Mitchell, Charles ("Chip") Margelli W7JA, and Elmer Rhoads. This practice gave way later to the "Logger of the Month" recognition, including Elmer Rhoads, John Bonnefield, Otho Smith, Ethel Devish, Ralph Fuller, Jack Lenhart, Grace Tietzel, Tom Sutton, Kathy Wood, Ray Ernsbarger, Steve Dightman (a second notice, a very famous guy still today!), William Antes, and Eva Anderson.

- *Submitted by Randy*, WB4SPB

THE MAILBAG
★mail★
W7UUU

THE RCT MAILBAG

Dave, a reader in Scottsdale, AZ writes, "So by the way, what's the significance of the name of your club's newsletter? It doesn't really roll off the tongue"

Dear Dave in Scottsdale: *Great question! In fact, for all the years I've been a member of the Radio Club of Tacoma (joined in August 1975), I have heard lots of stories but never really knew the facts. Right about the time I got your email, I was pleasantly surprised to receive a submission from the club's IT and Infotech officer, Randy WB4SPB, knowing the Bark was now listed on QRZ.com, thought he should submit an article that answers your exact question! So just scroll back up a few pages to the Guest Editorial and "read all about it"*

We'd love to hear from you!

Just email your letters and comments to LoggersBark@Gmail.com and you will see your letter on this page in a future edition.

Remember: **Editorial deadline for most materials is the 15th of every month!**

Thanks for reading!
Dave W7UUU, *Editor*

LETTERS
To The Editor

HAM RADIO WORLD NEWS

Amateur radio events from around the world

W7UUU

MARCH 1, 2024—TODAY THE AMATEUR RADIO WORLD morns the loss of one the most beloved amateur radio operators in recent memory, Dr. Robert G. Heil, K9EID, who passed away after a year-long battle with cancer, on February 28, 2024.

Bob was one of the true innovators in the field of amateur radio, manufacturing all manner of microphones, competition headsets, and a vast array of mostly audio-related accessories for the radio amateur. It's probably fair to say that at one time or another, every ham on the air today has at least at one time used a Heil Sound device.

But he was also an innovator in the world of live sound audio and is widely credited for creating the way that all live sound is done for modern rock concerts the world over. He created unique sound systems for bands such as The Grateful Dead and The Who. He invented the Heil Talk Box in 1973, which was frequently used by star-level musicians such as Joe Walsh (WB6ACU), Peter Frampton, and Richie Sambora—as well as Alice in Chains, Aerosmith, Slash, Pink Floyd, and many others.

Most of us know and remember him for all his many contributions to amateur radio, of course. In the late 1970s, he branched out from the live music and sound reinforcement world into that of ham radio, endeavoring to improve what he considered to be sound problems in the common amateur radio gear of the era. Bob's audio background was long and deep, with a great deal of applied science and theory learned from audio legends Paul Klipsch and Donald Leslie, as well as in relation to the Bell Labs Fletcher-Munson curves (the "equal loudness" concepts that became integral to how Bob approached audio devices for the ham radio market).

Dr. Bob Heil, October 5, 1940—February 28, 2024

K9EID

In the early 1980s he started working with Yaesu and Icom in Japan, assisting their design engineers to make dramatic improvements in transmit audio in the modern transceivers then coming into the US market. Radios prior to this, if they had any transmit audio EQ at all, it was very basic. Bob's input led to all ham radio transceiver manufacturers adapting highly configurable multi-band parametric EQ systems that we all use on a regular basis today.

HAM RADIO WORLD NEWS

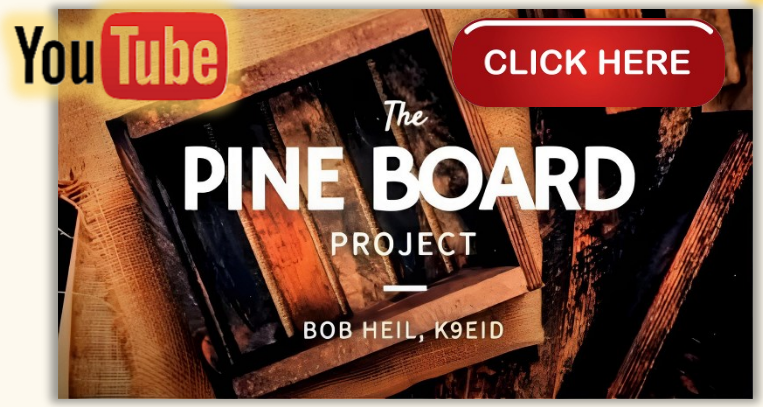
Amateur radio events from around the world

W7UUU

K9EID
COLLINS
HEIL SOUND

Bob's QSL card

The one thing that stands above all others is the fact that Bob will be greatly missed by almost the entire amateur radio world. His friends were many, in all walks of life from rock star to grade schooler, ham tech class licensee to extra, young and old alike. I was fortunate to be one of a great many to count Bob as a personal friend and an inspiration. He will be dearly missed by all. ■ *-editor*



Bob's "Pine Board Project" became one of the most popular "build-along" projects on the internet a few years ago. He led builders through the entire process of putting together their own ***5 Watt AM transmitter****, with the modulator, power supply, and modulator all constructed based on Bob's detailed plans and schematics. Click the video above to watch my 10-minute interview with Bob from March 2023*

Photo: Heilsound.com

Bob Heil was also a world-renowned concert organist, getting his first gig as assistant organist at the Fox Theatre in St. Louis, Missouri at the age of 15. Heil continued to play the Fox theater regularly the rest of his life

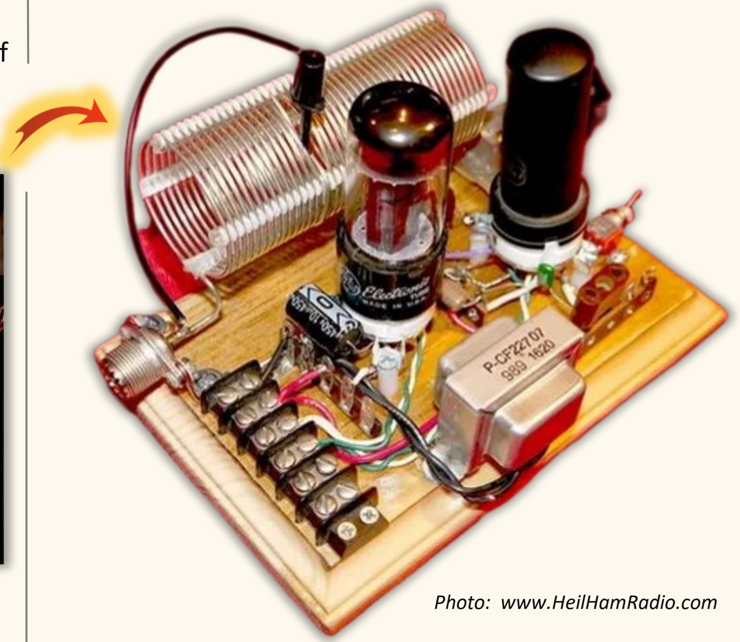


Photo: www.HeilHamRadio.com

This is a photo of Bob's own Pine Board Project transmitter, that he used regularly on the air to talk to hams all over the Midwest and when conditions were good, even out to the West Coast and beyond. Learn all about the Pine Board Project at by clicking HERE or click the photo above

HAM RADIO WORLD NEWS

Amateur radio events from around the WEB

THE RECIPIENTS OF THE 2024 **Hamvention Awards** were announced on March 8, 2024

Click logo to visit the site

Special Achievement Award: Anthony Luscre, K8ZT
Luscre is from near Akron, Ohio, and he was first licensed in 1981. He has been a low-power operator, contester, and teacher throughout his amateur radio career. He received his Amateur Extra-class license in 2000. Luscre is active on HF and VHF/UHF, and he operates on CW, phone, and digital modes. His low-power contacts now top 115,000. Between licensing classes, club programs, webinars, hamfests, conferences, youth and school radio demonstrations, and other in-person and online talks, Luscre has presented more than 500 sessions since the beginning of the COVID-19 pandemic. He has presented multiple times for Contest University, the QSO Today Virtual Ham Expo, and Dayton Hamvention®. He holds a weekly class, "The Joy of Operating," for the Long Island CW Club. Anthony serves as the ARRL Ohio Section Youth Coordinator and he is an officer in the Cuyahoga Falls Amateur Radio Club.

Technical Achievement Award: Ward Silver, N0AX

For the past 15 years, Silver has been the Lead Editor of The ARRL Handbook and The ARRL Antenna Book, and he was a primary author of all three ARRL license manuals and study guides from 2004 until his retirement in 2023. As an electrical engineer, he designed microprocessor-based products and medical devices for 20 years before beginning a second career as a teacher and writer. Licensed since 1972, he is a co-founder of the World Radiosport Team Championships and was inducted into the CQ Contest Hall of Fame in 2015, with numerous top scores and records. He is President of the Yasme Foundation, and he is also a board member of the Ham Radio Science Citizen Investigation (HamSCI) collaborative research group. Silver's primary interests in amateur radio include radiosport, antenna design, and supporting his local emergency response team.

Heard some ham radio WORLD news? Send it in!

Club of the Year Award: The Young Ladies' Radio League (YLRL)

The Young Ladies' Radio League, Inc. (YLRL), is proud to be celebrating its 85th anniversary this year. With members from all over the world, the organization has been involved in everything from contests, to emergency events, to helping new hams get licensed and on the air, as well as everything in between. Established in 1939, YLRL has been found at hamfests and conventions all over the world. The club is proud to have had a booth at Hamvention® every year since the 1950s and a YL Forum since the 1960s. "Women helping women in amateur radio" is a mission statement for this organization, but there are also contest and award opportunities for the OMs who support their YLs. YLRL has the motto "QRV — I am ready," as they are always ready to assist in the radio community.

Amateur of The Year Award: Edward Engleman, KG8CX

Engleman, KG8CX, is from Menominee, Michigan. He is the co-founder of the Young Amateurs Communications Ham Team (YACHT). He was first licensed in 1991 and received his Amateur Extra-class license in 2000. He has been a member of ARRL since 1991. Engleman serves his home club, the Marinette & Menominee Amateur Radio Club, as a volunteer examiner. Engleman's 33-year background as an elementary educator and principal was instrumental in developing the talents he now uses in his work with young amateurs.

ARRL The National Association for Amateur Radio® and Hamvention® have announced that Hamvention will host the 2024 ARRL National Convention on May 17, 18, and 19 at the Greene County Fairgrounds in Xenia, Ohio. ARRL has an exciting lineup of forums and presentations for the ARRL National Convention. For information about the 2024 ARRL National Convention, go to www.arrl.org/expo. For tickets to Hamvention and further information, head to www.hamvention.org.

You can read more about the 2024 Hamvention award winners and the 2024 ARRL National Convention at ARRL.org.

Read more – via American Radio Relay League | Ham Radio Association and Resources http://www.arrl.org/news/view/dayton-hamvention-2024-award-winners-announced

ARRL NEWS & VIEWS

What is the League up to this month?

W1AW

AMATEUR RADIO STANDS READY

to Support Eclipse Operations

The upcoming April 8, 2024 solar eclipse has many excited about the opportunity to witness the darkness of totality. Spectators from across the country are traveling to the path of total darkness that will stretch from South Texas to Northeastern Maine. Some states are anticipating more than a million travelers for the event. In the impacted areas, schools will be letting students out early for the day, and residents are being encouraged to avoid driving on the day of the event. Emergency response organizations are adding staff for the event in many areas. The eclipse is expected to directly impact parts of 14 states as it moves across the country. The travel impact alone could be substantial.

In preparation for the event, many state emergency management organizations have called on local hams to provide communication services via HF nets and locally on VHF/UHF frequencies. There have been numerous planning meetings, exercises, and preparations across the country. The ARRL Emergency Management department has worked with ARRL Section Emergency Coordinators and Section Managers in the directly affected areas to collect the frequencies each Section plans to utilize, and to assist in any frequency conflicts. Hams across multiple states and ARRL Sections have been practicing their communications capabilities via Winlink, SSB, and CW. "It is great to see Sections along the path working together to be prepared to assist in any emergency, should it occur during the event," said ARRL Director of Emergency Management Josh Johnston, KE5MHV. "Heavy traffic is the major concern, but [anything can happen] during such a large event," he added.

The second "diamond ring" phase of the 2017 Great American Eclipse, as seen in Madras, Oregon. [Sierra Harrop, W5DX, photo]

Johnston went on to say, "There will be several on-air operating events on the day of the eclipse, but please give some space for any emergency traffic that may be taking place as well."

Ham Radio Science Citizen Investigation (HamSCI) is leading the Solar Eclipse QSO Party which will allow radio amateurs to participate in propagation research by operating during the eclipse and submitting their logs. Much of that activity will be focused on the FT8 frequencies of the non-World Administrative Radio Conference (WARC) HF bands, but all modes will be welcome during the event.

©ARRL 2024

ARRL NEWS & VIEWS

What is the League up to this month?

2024 ARRL FIELD DAY THEME: **Be Radio Active**

The theme for 2024 ARRL Field Day is "Be Radio Active." The event will run on June 22 - 23, and it will be one-part contest, one-part emergency communications exercise, and one-part open house -- and a great time. The theme encourages radio amateurs to take advantage of the peak of Solar Cycle 25, which we are nearing. Activity this year is likely to be extremely high thanks to favorable solar conditions. The upper HF bands, such as 15 and 10 meters, should benefit most from the Cycle's peak.

There are resources available already for clubs and individuals to make their Field Day plans. ARRL will publish more information and tools so that hams can make the most of the event as it draws near. Amateurs interested in learning more are invited to join the Field Day Facebook group to connect with others who are planning for the big weekend.

Find links to all of the resources on the ARRL Field Day web page at www.arrl.org/field-day.

ARRL FIELD DAY 2024
BE RADIO ACTIVE

UPCOMING ARRL CONVENTIONS:

- March 16 | 49th Annual Stuart Hamfest, hosting the ARRL Southern Florida Section Convention, Stuart, Florida
- March 16 | St. Patrick's Day Hamfest, hosting the ARRL West Texas Section Convention, Midland, Texas
- April 6 | Raleigh Hamfest, hosting the ARRL Roanoke Division Convention, Raleigh, North Carolina
- April 12 - 13 | Green Country Hamfest 2024, hosting the ARRL Oklahoma State Convention, Claremore, Oklahoma
- April 20 | Delmarva Amateur Radio and Electronics Expo, hosting the ARRL Delaware State Convention, Georgetown, Delaware
- May 11 | ARRL Nebraska State Convention, Lincoln, Nebraska
- May 17 - 19 | Dayton Hamvention, hosting the ARRL National Convention, Xenia, Ohio

Search the ARRL Hamfest and Convention Database to find events in your area.

©ARRL 2024

MEMBER SPOTLIGHT

W7UU

John KA7RMG

John KA7RMG has been a member of the Radio Club of Tacoma since March of 1986, Member number 1198, and he holds an Extra class license. During the Vietnam war he held a fascinating job, operating radio surveillance of the enemy and recording "fingerprints" of the transmitters in use. Search "Radio Fingerprinting" to read more. It's a fascinating topic to read about and still used today! ***-editor***

AROUND THE CLUBHOUSE

Recent Photo highlights from the Clubhouse

Ellen, AI7FP, hanging out in the classroom visiting

Dan KD7SV beginning power supply work on a Heathkit SB-303 HF receiver in the museum

Sam, N9MII, hanging out doing his best to promote local community radio (KTQA Tacoma, 95.3)! So let's help him out—click the link or the picture!

Bruce, WB7TVS, visiting in the kitchen on March 2

Got pictures from the clubhouse? Send 'em in!

All photos this page provided by Dave W7UUU

email loggersbark@gmail.com

AROUND THE CLUBHOUSE

Recent Photo highlights from the Clubhouse

Singer Taylor Swift visits with Bob K7MXE on March 2 in the clubhouse kitchen

Thomas, right, bones up on programming UV5Rs for GMRS with aid of Stephan, AD7AB

***Newly appointed ARRL WWA Section Manager,* Bob** *AD7LJ, visiting with Al, N7OMS in the Oakman Library on March 2*

CONGRATULATIONS BOB!!

Full details p. 99

Chris from Puyallup excited to be on his journey to a license—30 years interest and finally heading down the path! Welcome to W7DK!

All photos this page provided by Dave W7UUU

AROUND THE CLUBHOUSE

Recent Photo highlights from the Clubhouse

The Property Management Team (PMT) trying to stay warm in the gear lockup while labeling and sorting donations

Bruce, KK7QLB, from Puyallup stops by the clubhouse for a visit on March 2

Steve, AD7VL (left) hanging out with his kid brother Paul in the clubhouse on March 2

Bruce, WE7P, consults his onyx crystal ball to determine what band conditions will be

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AROUND THE CLUBHOUSE

Recent Photo highlights from the Clubhouse

W7DK

Bob, K7MXE working out power routing and locations in the W7DK yard with Adam W2NCC

Steve, AD7VL displays some of his foreign coin collection on Saturday March 2

Doug, AB7DG discusses plans for the dead porcupine that Brad, WA7BTC, brought with him

Always with a smile and a kind word, Lloyd, AG7CX in the Lou Room on March 2

Got pictures from the clubhouse? Send 'em in!

All photos this page provided by Dave ***W7UUU***

email loggersbark@gmail.com

AROUND THE CLUBHOUSE

Recent Photo highlights from the Clubhouse

Phil K7PIA works the IC-7610 while Mike W7MKE makes contacts on the Flex
A young "ham to be" watches happily

New supply of gourmet donuts shows up at the clubhouse often these days

Ellen, AI7FP, chats with Bruce, WE7P on March 2

Net Control Scott, KA7IOX, hanging out with Phil, KC7PS on March 2 in the Lou Room

Got pictures from the clubhouse? Send 'em in!

All photos this page provided by Dave ***W7UUU***

email loggersbark@gmail.com

AROUND THE CLUBHOUSE

Recent Photo highlights from the Clubhouse

Becky, KG7FZH, always with a smile and a kind word, hanging out in the kitchen on March 2

After Taylor left, Anne N7ANN took her chair and managed to get Bob K7MXE to crack a smile!

Flex 6600
HF SDR
Transceiver
80m -
bands

Mike W7MKE (left) and Gary WG7X work with the new Flex 6600 and Mercury amplifier

Prez Mike W7XTZ gearing up to make a strong pot of coffee

Got pictures from the clubhouse? Send 'em in!

All photos this page provided by Dave W7UUU

email loggersbark@gmail.com

AROUND THE CLUBHOUSE

Recent Photo highlights from the Clubhouse

John *KA7RMG* *hanging out in the garage and lockup area on March 16*

Walt *WA7SDY* *gearing up for SSB action on the Icom IC-7610 on March 16*

John Marsden	KI7YRC	4/1
Jacob Dalley	KD7CDP	4/1
Andrew Peabody	KK7PMF	4/2
Jeffrey Hanson	W7JFF	4/3
Sarah Padilla	KK7ELM	4/3
Evan Moyer	KI7ZEW	4/7
Alan Ferguson	N7OMS	4/7
Donald Tjossem	W7DRT	4/7
Ted Williams	KJ7KPI	4/7
Harry Wong	N7DOE	4/9
Wade Marshall	W7ITL	4/10
Daniel Vacanti	KD7SV	4/12
Hans Kensler	N1ETT	4/12
Jerry Hathaway	K7ETU	4/16
David Knechtel	WA7RNX	4/17
Kevin Cummings	W7HUA	4/17
Jan Gilbertson	K7HTU	4/19
Richard Frankenberg	KI7HAE	4/19
Heidi Morton	KI7TT	4/23
Matthew Smiley	KK7GZM	4/23
Randall Bardwell	N6SO	4/24
Nicholas Juliano	W1NRJ	4/24
Joe Castillo	KN6DQB	4/25
Kevin Ostenson	KE7YLJ	4/25
Craig Nelson	KK7LLN	4/26
Kathryn Antonetti	K7USR	4/27
David Morse	K7FI	4/28
Greta Hewlett	KF7KSW	4/30
Robert Groger	KK7BMS	4/30
Brady Friedrich	W7EC	4/30

Got pictures from the clubhouse? Send 'em in!

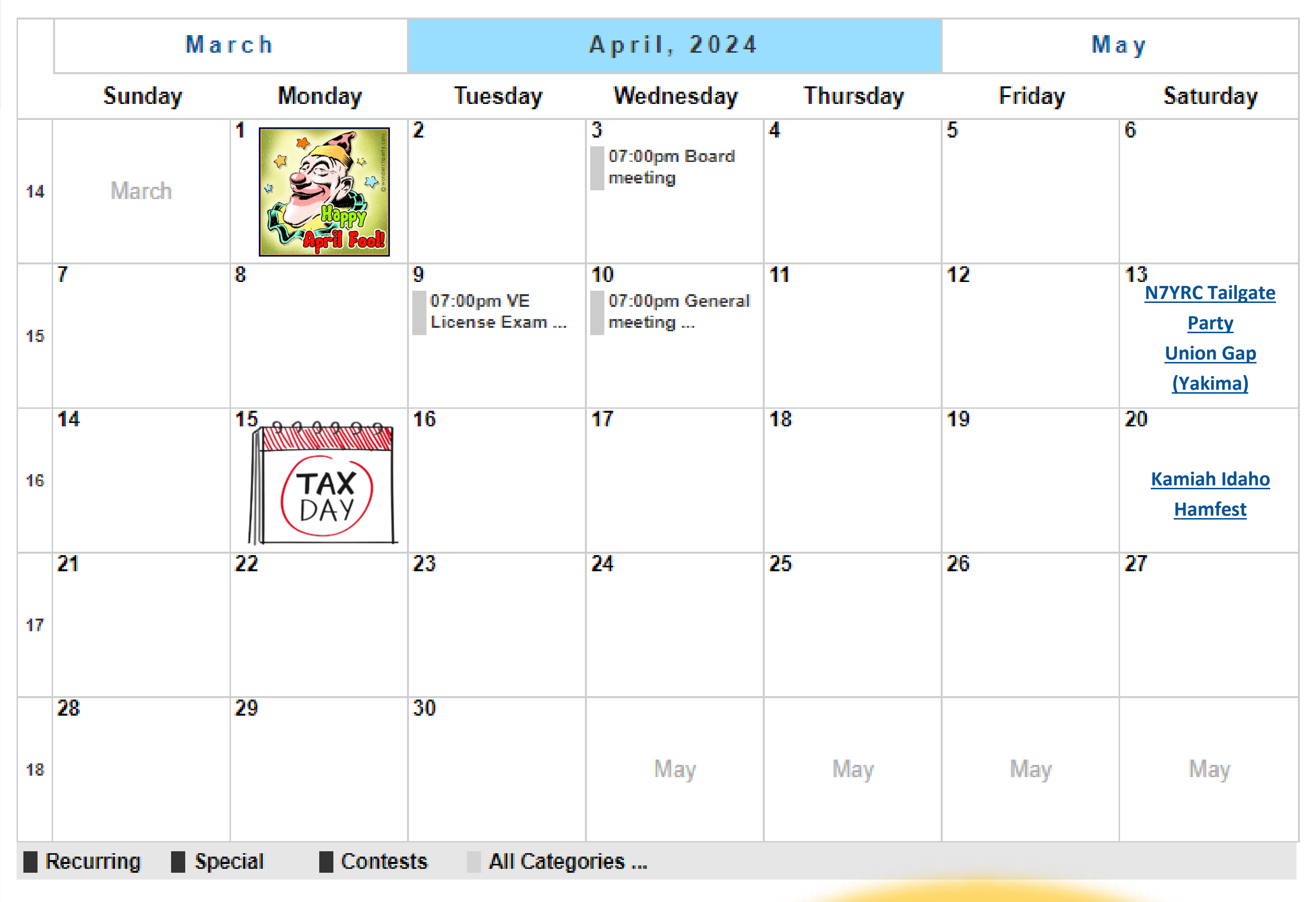
All photos this page by Dave W7UUU

April Birthdays!!

THIS MONTH'S CALENDAR

Always check the W7DK website for latest news

W7DK



	March		April, 2024			May	
	Sunday	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday
14	March	1 Happy April Fool!	2	3 07:00pm Board meeting	4	5	6
15	7	8	9 07:00pm VE License Exam ...	10 07:00pm General meeting ...	11	12	13 N7YRC Tailgate Party Union Gap (Yakima)
16	14	15 TAX DAY	16	17	18	19	20 Kamiah Idaho Hamfest
17	21	22	23	24	25	26	27
18	28	29	30	May	May	May	May

▮ Recurring ▮ Special ▮ Contests ▨ All Categories ...

Did you know?

April was the second month of the earliest Roman calendar, before Ianuarius and Februarius were added by King Numa Pompilius about 700 BC. It became the fourth month of the calendar year (the year when twelve months are displayed in order) during the time of the decemvirs about 450 BC, when it was 29 days long.

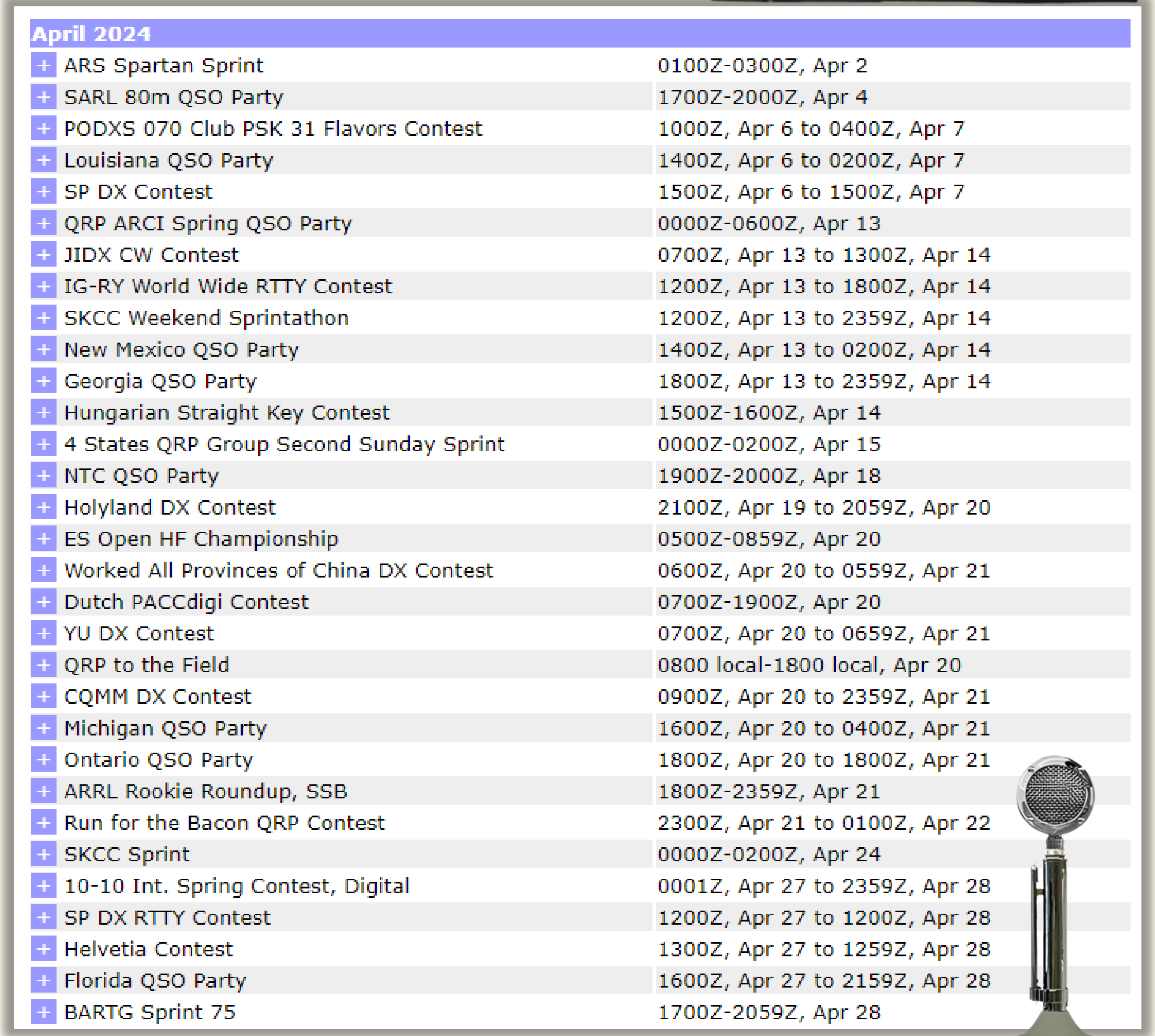
Click Numa's coin image to learn more!

4O3A Contest Station
WA7BNM
Contest
Calendar

WA7BNM CONTEST CALENDAR

Contest events for the coming month

HUGE thanks to Mr. Bruce Horn, WA7BNM for publishing his “Contest Calendar” for all these many years… a truly wonderful resource for finding virtually every ham radio contest on Earth that might be happening, in most any mode and most any region in the world. Follow the link to take you to the site, then sort through the various options to find the specifics of every upcoming event. For now, here’s the WA7BNM Contest Calendar for the coming month



April 2024	
+ ARS Spartan Sprint	0100Z-0300Z, Apr 2
+ SARL 80m QSO Party	1700Z-2000Z, Apr 4
+ PODXS 070 Club PSK 31 Flavors Contest	1000Z, Apr 6 to 0400Z, Apr 7
+ Louisiana QSO Party	1400Z, Apr 6 to 0200Z, Apr 7
+ SP DX Contest	1500Z, Apr 6 to 1500Z, Apr 7
+ QRP ARCI Spring QSO Party	0000Z-0600Z, Apr 13
+ JIDX CW Contest	0700Z, Apr 13 to 1300Z, Apr 14
+ IG-RY World Wide RTTY Contest	1200Z, Apr 13 to 1800Z, Apr 14
+ SKCC Weekend Sprintathon	1200Z, Apr 13 to 2359Z, Apr 14
+ New Mexico QSO Party	1400Z, Apr 13 to 0200Z, Apr 14
+ Georgia QSO Party	1800Z, Apr 13 to 2359Z, Apr 14
+ Hungarian Straight Key Contest	1500Z-1600Z, Apr 14
+ 4 States QRP Group Second Sunday Sprint	0000Z-0200Z, Apr 15
+ NTC QSO Party	1900Z-2000Z, Apr 18
+ Holyland DX Contest	2100Z, Apr 19 to 2059Z, Apr 20
+ ES Open HF Championship	0500Z-0859Z, Apr 20
+ Worked All Provinces of China DX Contest	0600Z, Apr 20 to 0559Z, Apr 21
+ Dutch PACCdigi Contest	0700Z-1900Z, Apr 20
+ YU DX Contest	0700Z, Apr 20 to 0659Z, Apr 21
+ QRP to the Field	0800 local-1800 local, Apr 20
+ CQMM DX Contest	0900Z, Apr 20 to 2359Z, Apr 21
+ Michigan QSO Party	1600Z, Apr 20 to 0400Z, Apr 21
+ Ontario QSO Party	1800Z, Apr 20 to 1800Z, Apr 21
+ ARRL Rookie Roundup, SSB	1800Z-2359Z, Apr 21
+ Run for the Bacon QRP Contest	2300Z, Apr 21 to 0100Z, Apr 22
+ SKCC Sprint	0000Z-0200Z, Apr 24
+ 10-10 Int. Spring Contest, Digital	0001Z, Apr 27 to 2359Z, Apr 28
+ SP DX RTTY Contest	1200Z, Apr 27 to 1200Z, Apr 28
+ Helvetia Contest	1300Z, Apr 27 to 1259Z, Apr 28
+ Florida QSO Party	1600Z, Apr 27 to 2159Z, Apr 28
+ BARTG Sprint 75	1700Z-2059Z, Apr 28

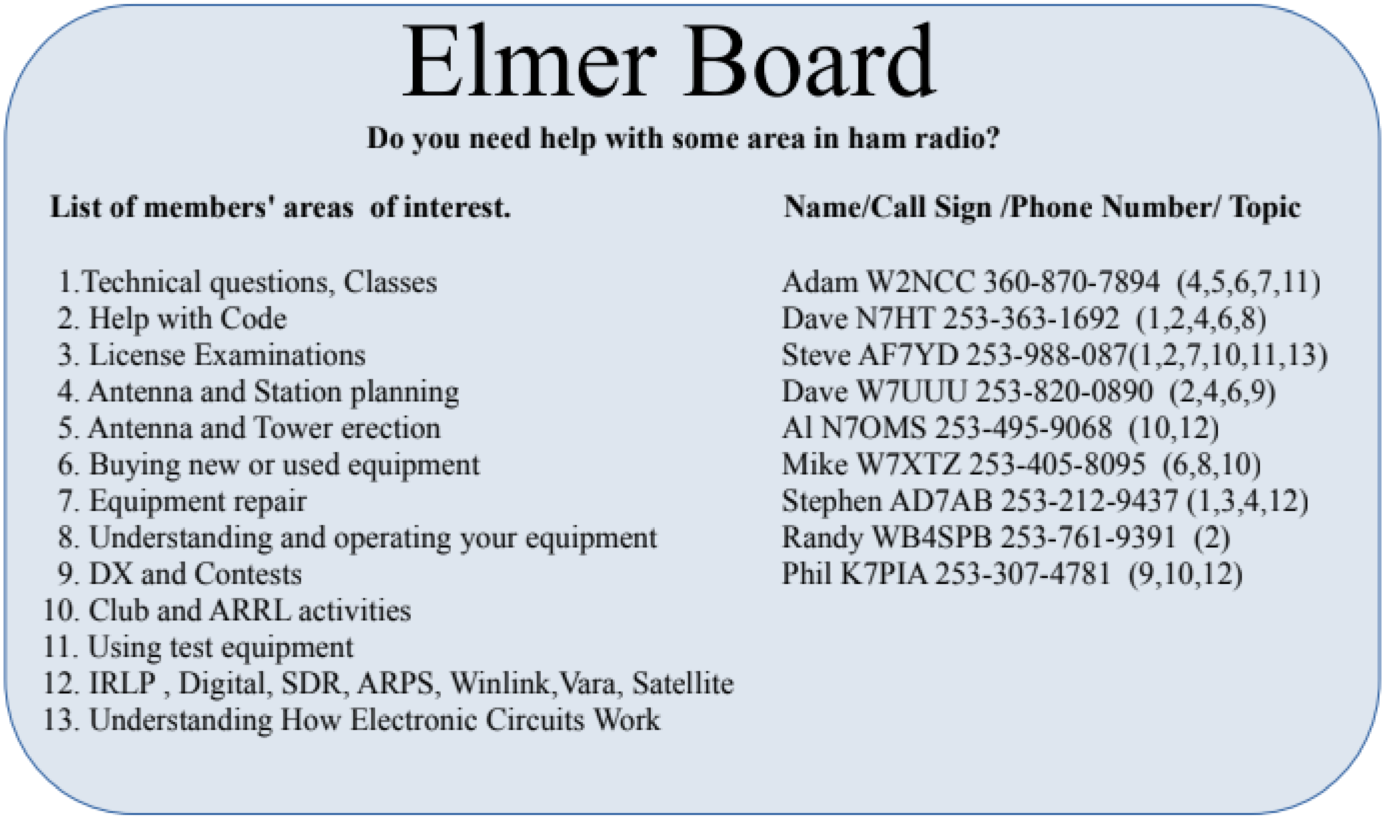
WA7BNM Contest Calendar data used with permission

THE W7DK ELMER BOARD

Do you have a skill or tool to help new hams?

YOU! YES *YOU!* Do YOU have a skill you could pass on to new amateur radio operators? Do you possess a skill or piece of gear that you're willing to share with others to fix antenna problems, diagnose noise issues, drive a ground rod, teach Morse, help teach technical topics? If the answer is YES you too could be a W7DK Elmer!! Let any officer know what your skills are or how you could help new hams get a leg up on the hobby. And if you're one of those already on the list, are there any changes we should be aware of? If so please hit the email address (found bottom of page on the right) and let us know so we can update the W7DK Radio Club of Tacoma "Elmer Board"

NEW HAMS OR MEMBERS: If you are looking for help, and NEED AN ELMER to help guide your way, use this table! Find the skill you need on the left, then look for an Elmer Provider of that skill on the right and reach out to them. ALL of these Elmer's have committed to helping so please don't hesitate.



Elmer Board

Do you need help with some area in ham radio?

List of members' areas of interest.

1. Technical questions, Classes
2. Help with Code
3. License Examinations
4. Antenna and Station planning
5. Antenna and Tower erection
6. Buying new or used equipment
7. Equipment repair
8. Understanding and operating your equipment
9. DX and Contests
10. Club and ARRL activities
11. Using test equipment
12. IRLP , Digital, SDR, ARPS, Winlink,Vara, Satellite
13. Understanding How Electronic Circuits Work

Name/Call Sign /Phone Number/ Topic

Adam W2NCC 360-870-7894 (4,5,6,7,11)
Dave N7HT 253-363-1692 (1,2,4,6,8)
Steve AF7YD 253-988-087(1,2,7,10,11,13)
Dave W7UUU 253-820-0890 (2,4,6,9)
Al N7OMS 253-495-9068 (10,12)
Mike W7XTZ 253-405-8095 (6,8,10)
Stephen AD7AB 253-212-9437 (1,3,4,12)
Randy WB4SPB 253-761-9391 (2)
Phil K7PIA 253-307-4781 (9,10,12)

Joe Walsh WB6ACU

22 Years Later

by Dave W7UUU

AROUND THE TURN of this century I was a regular seller on eBay, selling old ham gear—boat anchors and vintage radio parts mostly. Those were the good old days when shipping cost was very reasonable, and it was easy to find buyers even for beastly rigs like 1950s transmitters and receivers.

In late 2001 and into 2002, I had sold a couple of nice old radios to an eBay user who at that time had the username WB6ACU. That call sign of course belongs to rocker Joe Walsh, of the James Gang and the Eagles fame. And the transactions all plainly listed "Joe Walsh" as the purchaser. I didn't really put it all together right away, thinking someone was pulling my leg.

Around March of 2002, after yet another sale of some ham-related item to this Joe guy, I flat out asked him over email, "are you really Joe Walsh, of the Eagles?" and he replied with, "yes I'm the old Eagle—that's me!". It was pretty exciting for me to learn this. How cool that I'd been selling radios and parts to a famous rock star?

At the time I was doing quite a bit of freelance writing, trying to break into a career as a magazine writer and photographer (I'd been a professional for years on the side, doing mostly weddings and portraits).

I knew that before I dared ask Joe for an interview that I should have a publishing agreement with a magazine in place first.

I sent an email to Rich Moseson, W2VU, editor of CQ Magazine with my request and he *immediately* approved of the idea. He suggested that CQ could procure a photographer near Studio City, CA to take the cover photo and the inside photos to illustrate the article. When I explained my photography background and offered to fly down myself to do it, that really sealed the deal.

Except for the small detail that I'd not yet discussed *any* of this with Joe!

Walsh's KLM KT-34 Yagi at 60' at that time

Photo Dave W7UUU

Joe Walsh WB6ACU

22 Years Later

SO I CRAFTED A very clear email complete with a rough outline of the article, topics to be covered, photos that would be needed, etc. As an attachment I included a long list of intended interview questions for him to consider.

An anxious week passed, but I finally received a favorable response back from Joe, and started to plan the adventure. I let Mr. Moseson at CQ know that Joe was on board, and my contract with CQ was "in the mail" shortly thereafter.

The phone interview with WB6ACU was scheduled for Thursday March 7, 2002 at 11:00 AM, with Joe set to call me. I had rigged my desk phone (this was before cell phones were the norm) with a Radio Shack recording device to record both sides of the call on cassette tape, and was all set. He was spot-on precise, and my phone rang promptly at 11:00 AM. The transcript of the entire interview is in THIS LINK or click any photo in this article if you'd like to read it.

He was super nice on the phone, just an "ordinary average guy" in every way. He was clearly prepared for all of my questions, as I'd submitted them well in advance. Anne, N7ANN was with me and listened on speaker-phone…. It was really fun!

At the very end of the interview, I braced my nerves and asked if I could come down to Studio City for photographs… he hedged initially, mentioning vague references to just searching out online images that CQ could use. But it took almost no persuasion and when I asked if I could fly down and do the job myself, he said "that would be fine. I don't mind"

Anne N7ANN at Joe's main operating desk, while we awaited his arrival for the photo session.

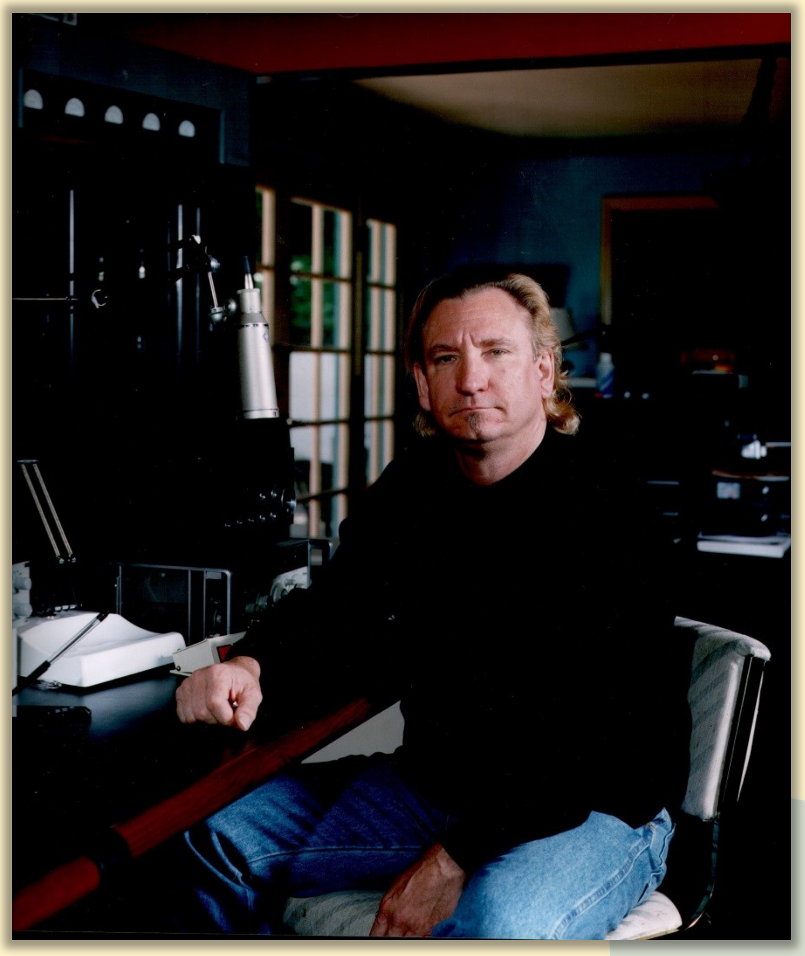
We set the date of Wednesday April 24th, 2002 at 11:00 AM for the photo session. Anne and I started making our plans and working out the details.

We arrived the day before, booking a room at the hotel Joe recommended, the legendary Sportsman's

Joe Walsh WB6ACU

22 Years Later

Lodge on Ventura Blvd., right in the heart of Studio City, a mere 2 miles from Joe's house. Once upon a time, it was a mecca hotel for stars: Bogart, Bacall, Gable, Davis, John Wayne, Hepburn, and even Eddie Van Halen. We spent the day exploring the area, while I spent the evening fretting over camera gear, film, settings, and procedures.



Joe seated at his big AM operating position, the iconic meters of the Collins transmitter top left. I went for a very strong black in this shot, in case CQ preferred to have plenty of contrast with the text. This slide was not used in the CQ article

CQ Magazine at that time required all photos to be on color slide film—either E6 Ektachrome (or Fuji) or on Kodachrome. Digital photography was not sufficiently advanced then. As most old-school photographers will know, shooting on slide film is exacting—there is no margin for exposure error, and most pro-level cameras then were fully manual, meaning there was no "computer magic" inside of them to make it all right.

Early Wednesday, we loaded up and drove up to Blairwood drive to Joe's house. He didn't actually live there full-time—only when the Eagles were in the studio in LA. His real home at that time was in San Diego. But the Blairwood house had been an important location in the 1990s, where he maintained a compact but elaborate home music recording studio and taped much of his solo material.

Arriving at the house was surreal—Joe wasn't even there yet! We rang the bell, and his sweet Hispanic housekeeper answered the door, and very pleasantly invited us in. She explained he would be there in an hour or so, and we were free to scout the home for shooting locations as needed.

What an experience that was! The house was large but not huge, and everywhere we went there was either ham radio gear or music memorabilia…. Radios abounded, and rock music

Joe Walsh WB6ACU

22 Years Later

This is the photo I really wanted CQ to use… nice composition, lighting, framing, "black space". Moseson never told me why CQ rejected this as the cover photo. But it works for the Bark!

items as well—hats worn in concerts, Gold Records on the wall (Hotel California album!), photos of other rockers in the world, the photo of Joe being best man at Ringo Starr's wedding. But I was totally respectful of Joe's privacy, and reserved taking any photos until he was there. So all of those really cool things I saw before his arrival are just in my memories.

Again, prompt as can be, Joe showed up at precisely 11:00 AM, driven by a very nice man named Smokey Wendell, Joe's personal manager, who explained he had been John Belushi's manager until John's untimely death. They arrived in Joe's "ordinary average guy" Jeep, not in anything fancy—that's just Joe.

Walking in, after handshakes and greetings, I realized all of Joe's important guitars were lined up near the door. He was leaving on tour with the Eagles the very next day and Smokey was driving him to San Diego to fly off to their first concert location.

Wow. **NO PRESSURE, RIGHT?** I realized at that moment that there would be *no re-dos* if I should screw these shots up. Joe would be off on tour for at least a year and there would be no chance for *redoing anything*. I guess in a way, I'm glad he never told me that beforehand.

We started in the main room of the house, what would be a Living Room if it were a normal home. There was a large L-shaped table arrangement, covered in radio gear and microphone processing. His main radio that day (he changed often) was one of the very first SDR radios, the Kachina 505DSP that he was very proud to show off. I will admit it was way over my head at the time—Joe was cutting edge!

Getting down to business, I had arranged a full array of professional studio lights around his primary

Joe Walsh WB6ACU

22 Years Later

operating position, with his Neuman U87 studio microphone and associated audio gear in view that fed his giant Collins AM BCB transmitter converted to 80m.

Joe was wearing a bright (loud!) shirt and Rich Moseson at CQ had asked for a dark area below Joe’s face for the magazine highlights. So I asked Joe if he’d go change his shirt for me—we needed a dark area in that part of the photo. It was an oddly satisfying feeling, I remember to this day, asking a big rock star to “please go change your shirt”.

This is the only picture I have of me from that day that I was in… with Joe, in his “Gold Dust Twins” room taken by Anne on a then high-tech Ricoh digital camera, albeit with really low resolution. The Collins light was a gift to Joe, from longtime friend, Bob Heil, K9EID (SK)

Joe obviously was a well-seasoned professional at posing for photographs, as we took more than a dozen in various poses featuring his gear, with perfect lighting and a tripod-mounted Hasselblad 500C camera shooting 120 Fujichrome E6 slide film. I figured from this series of shots, I’d nailed the cover for CQ Magazine. So I thought, anyway.

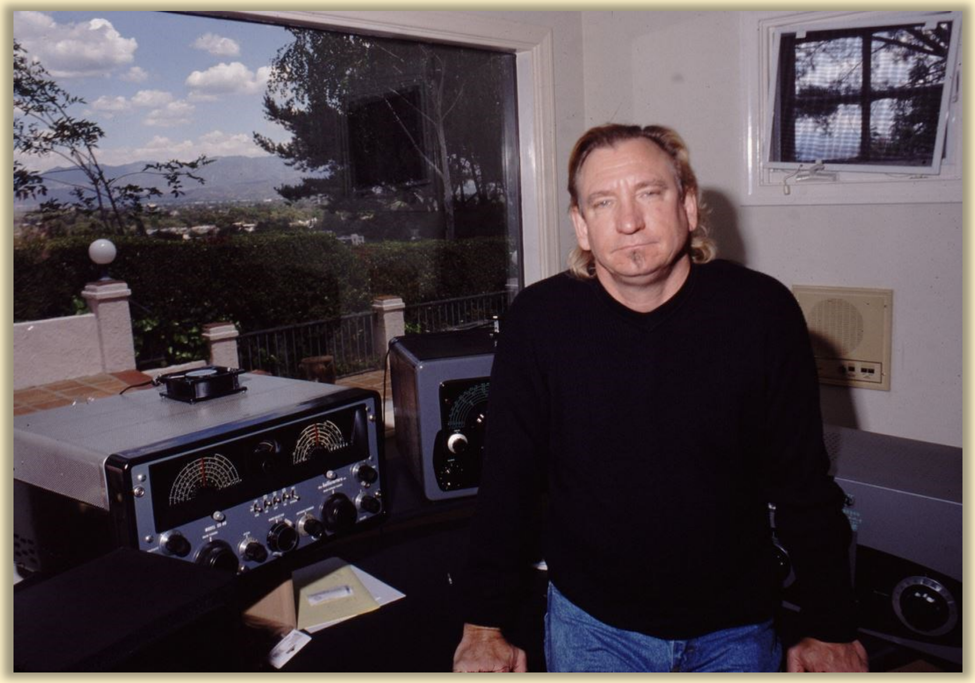
From there, I donned my Nikon with giant Metz “potato masher” flash and loaded with more Fujichrome slide film, 35mm this time. We wandered his house—starting in the Collins “Gold Dust Twins” room which was his study, then downstairs to other rooms filled with great old boat anchor radios, and ultimately the recording studio to see his home-built Synthesis Technology analog synthesizer used in his 1991 “Ordinary Average Guy” solo album, among others.

Joe was super nice and cordial the entire time, and we just chatted about stuff…. mostly ham radio topics. But at one point, Anne N7ANN mentioned, “Dave has a memory of something about you that he wanted to share”, and I suddenly froze in my tracks. When the song Hotel California hit the radio in February 1977, I was a junior in High School, and the lead solo in that song (mostly Joe Walsh playing) at the time was so amazing , and I was blown away. I remembered the day, the place, where I was and what I was doing when I first heard the song. When I related that story to Joe, a story

Joe Walsh WB6ACU

22 Years Later

I'm sure he'd heard a million times, he just smiled and sort of glazed over as I stumbled over my words, sort of stuttering. I was so embarrassed. We'd been talking just fine until that moment but then I got all tongue tied. I'm sure he'd have preferred I said it was one of his James Gang classics like Funk 49… but it was a very memorable thing to me to be telling that story directly to the guy himself! In the end, he was totally appreciative.



Joe in a downstairs operating position with the SX-88 receiver (left) that rocked the eBay world at the time for what he paid to keep it in the US. Behind him of course is a Johnson Ranger, another classic of the AM days of amateur radio

After the shoot was done, Joe and Smokey loaded the Jeep with guitars and suitcases, then Smokey gave me a handful of Joe Walsh branded guitar picks and promised free "Family & Friends Section" seats to the next Seattle concert that August, and they were off to San Diego to start the Eagles tour.

And I was *terrified!* What if all those rolls of film were not exposed or focused correctly? There were no second chances. Joe was gone. It was over.

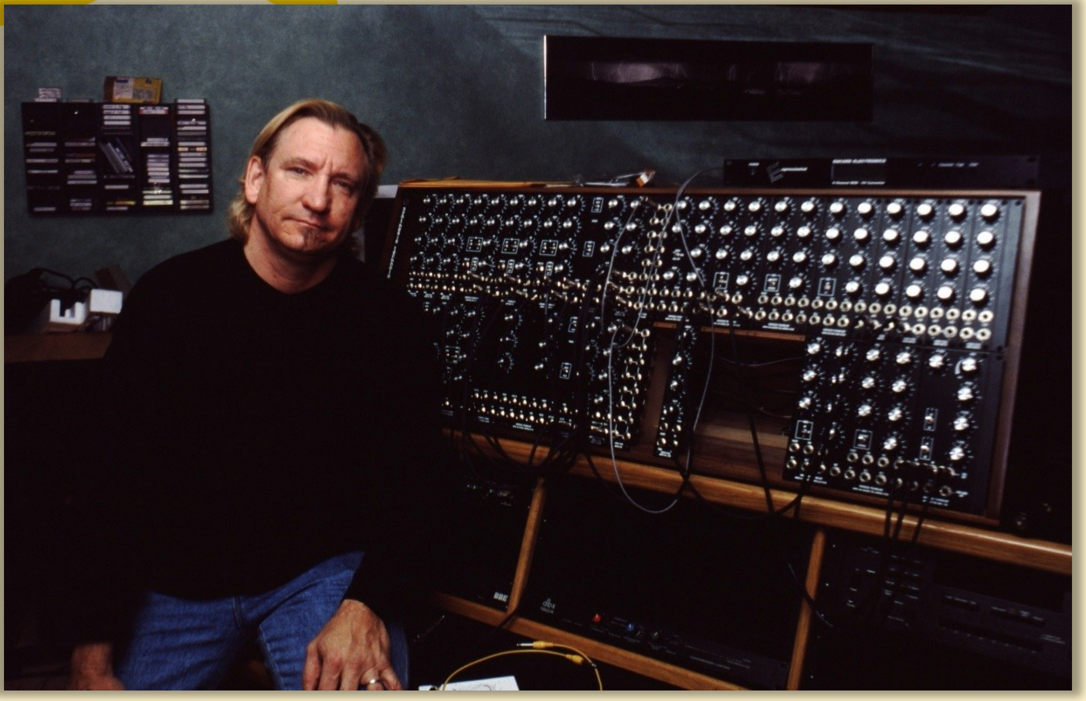
Anne and I immediately loaded up our gear and made a straight shot for the (then) best E6 film processing lab in LA—one that processed film for major studios. We paid a premium price for "while you wait" processing while we sat nervously in the rental car, not talking much.

At long last the film was processed, I paid the (steep) bill, and we returned to the car and the loupe slide viewer/magnifier I had brought... they were *perfect.* Awesome. Spot-on. Focus, exposure, composition. Everything. I was so elated and so was Anne, and from that moment we turned into full-blown tourists, and spent the next day exploring LA without a care in the world before flying home.

Within days, CQ Magazine had the original slides

Joe Walsh WB6ACU

22 Years Later



My favorite photo of that day was with Joe and his Synthesis Technology analog synth he built himself, and was iconic in many of his solo songs, such as Life's Been Good to Me So Far

and draft interview in their hands. Rich Moseson was very pleased. But in the end, he chose one of the hand-held shots for the magazine cover (in the Gold Dust Twins room, with the Ringo Star photo on the wall below the Collins clock (a gift of Bob Heil)). I was very disappointed Rich chose not to use the vastly better shots from the Hasselblad, in medium format. He never explained the reason for the choice, despite the fact the Hasselblad 120mm shots were much higher resolution than the 35mm handheld images from the 35mm camera. But I was still elated to have my photograph on the cover of the November 2002 issue regardless.

When it hit the newsstand, I was at Border's Books that very day—and bought a copy for myself right off the shelf featuring my photo of Joe on the cover and article inside. That was a memorable day.

A few months later, I received in the mail an autographed copy from Joe himself, with a handwritten note "Great job David—thank you—Joe Walsh WB6ACU"

It was my highest-paid writing job at the time, but even at that was really a break-even at best. But it stands as one of the most fun and engaging projects I've ever done.

And now, for this issue of the W7DK Logger's Bark Magazine, I finally have the Joe Walsh cover photo that I wanted to appear on CQ Magazine all those years ago, 22 years later!

-Dave W7UUU

To download a full transcript of the original

CAPITOL PEAK REPEATER
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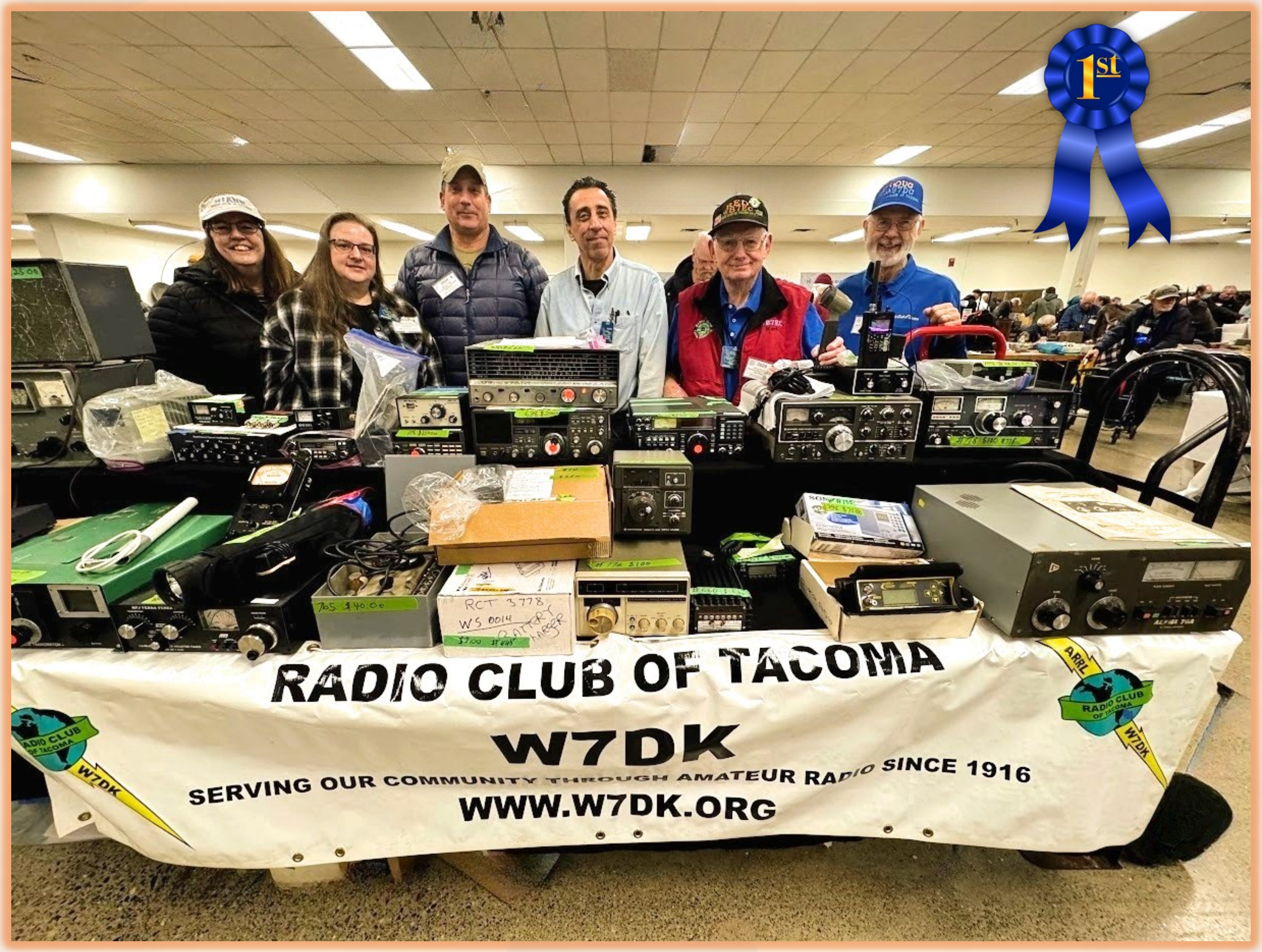
MIKE & KEY
SEATTLE
AMATEUR RADIO CLUB
W7DK

MIKE & KEY HAMFEST

W7DK Annual participation in this large event

W7DK MIKE AND KEY HAM FEST COVERAGE….


1st
RADIO CLUB OF TACOMA
W7DK
SERVING OUR COMMUNITY THROUGH AMATEUR RADIO SINCE 1916
WWW.W7DK.ORG
ARRL
RADIO CLUB OF TACOMA
W7DK

Mike & Key Ham Fest on March 9, 2014. From left to right: Anne N7ANN who happened to be visiting behind the table, with club booth volunteers Deanna KA7DCX, Paul K7OSS, Adam W2NCC, Red WB7EC, and Doug AB7DG

Photo by Dave W7UUU

MIKE & KEY HAMFEST

W7DK Annual participation in this large event

MIKE & KEY
SEATTLE
AMATEUR RADIO CLUB
W7DK

Entrance to the Western Washington Fairgrounds where the M&K Ham Fair is held

Adam W2NCC hanging out at the W7DK booth

Red WB7EC and Paul K7OSS working the booth

Red WB7EC and Walt WA7SDY visiting at the W7DK booth

All photos this page provided by Dave W7UUU

MIKE & KEY HAMFEST

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Paul *K7OSS* *guarding the Hammarlund speakers and receiver, hoping for a buyer*

Doug *AB7DG* *calls CQ with Steve* *AF7YD*

Lots of cool rigs for sale this year in the W7DK booth…. the PMT didn't hold back anything!

RADIO CLUB OF TACOMA
W7DK
WWW.W7DK.ORG
SINCE 1916

Selfie Time—Anne *N7ANN* *& Dave* *W7UUU*

All photos this page provided by
Dave W7UUU

CAPITOL PEAK REPEATER
W7DK

MIKE & KEY HAMFEST

W7DK Annual participation in this large event

Deanna KA7DCX visiting with Anne N7ANN at the W7DK table

Gary WG7X, Anne N7ANN, Al N7OMS and Dan KD7SV catching up in the hallway

Rich KR7W paid a visit, driving in from Idaho

Rick KR7W, Erick K7APO, and Bob K7MXE visiting in Bob's booth

All photos this page provided by
Dave W7UUU

MIKE & KEY HAMFEST

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Gary WG7X and Anne N7ANN yuck it up

Bob K7MXE manning his booth

Lloyd AG7CX taking a break in the dining area

Becky KF7FZH selling the goods in her booth

All photos this page provided by

Dave W7UUU

MIKE & KEY HAMFEST

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W7DK

ICOM
IC-7300

The Icom booth was loaded with gear

Lots of hams stop in to see the newest offerings from Icom… nice that they have a local HQ!

ARRL The national association for AMATEUR RADIO
Advancing the Art, Science and Enjoyment of AMATEUR RADIO

ARRL had a nice presence at the Ham Fest

HAM RADIO ADVENTURES WE4DX
Advancing The Hobby Through Adventures!

Ham Radio Adventures, WE4DX, is a national club group that promotes experiencing ham radio in the great outdoors

All photos this page provided by
Dave W7UUU

MIKE & KEY HAMFEST

W7DK Annual participation in this large event

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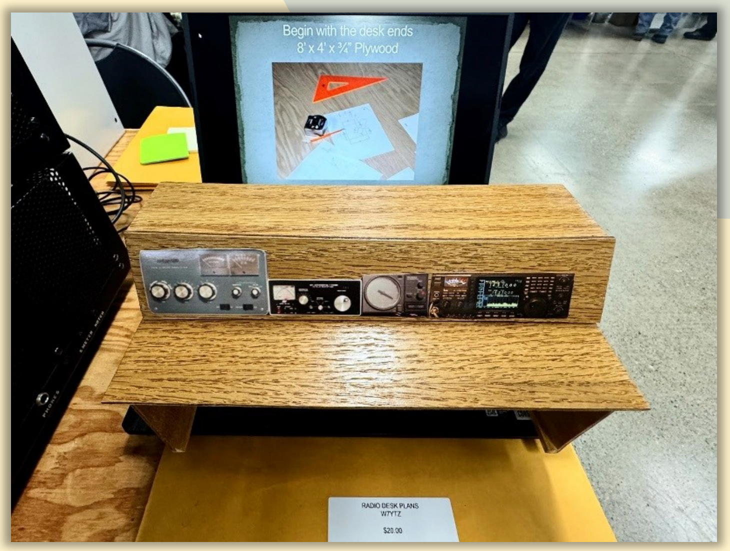
MIKE & KEY SEATTLE AMATEUR RADIO CLUB
W7DK

I always enjoy some of the truly oddball stuff you see at ham fests—like Porcupines!

Remember these? Yuck! Now only found at swap meets in the "25 cent box"


Begin with the desk ends
8' x 4' x ¾" Plywood
RADIO DESK PLANS
W7YTZ
$20.00

Dick, W7YTZ sells plans to build your own [wooden "gear console" operating desk]

And for only $250, you could have taken home the stuffed Porcupine! (I passed on it)

All photos this page provided by Dave W7UUU

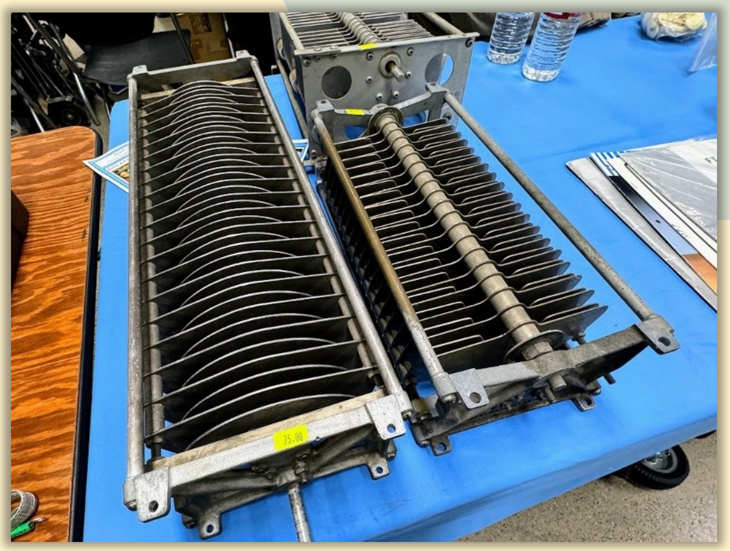
MIKE & KEY HAMFEST

W7DK Annual participation in this large event

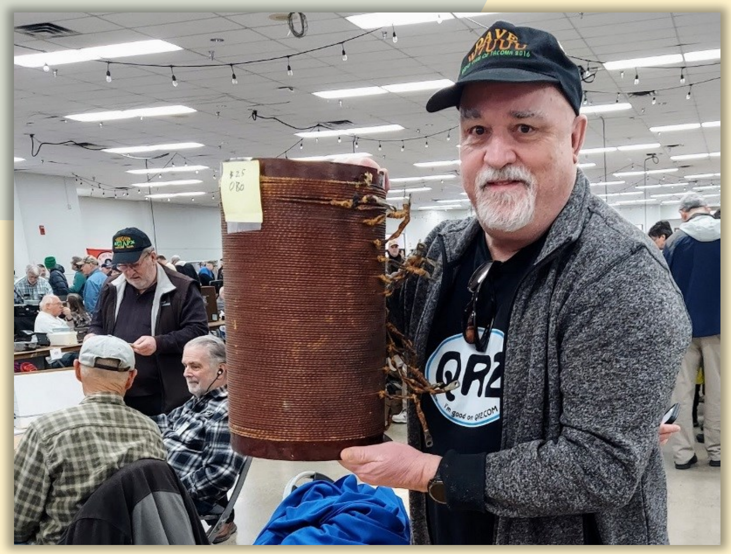
W7DK

Dave W7UUU, left, wanders the isles
Photo by Anne N7ANN

Lots of stuff to look at but I didn't bring anything home! Wife was proud of me 🙂



First ya start with some GIANT variable capacitors….



And then you add the GIANT multi-band tapped tank coil to build your HUGE transmitter!

All photos this page provided by
Anne N7ANN

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MIKE & KEY HAMFEST

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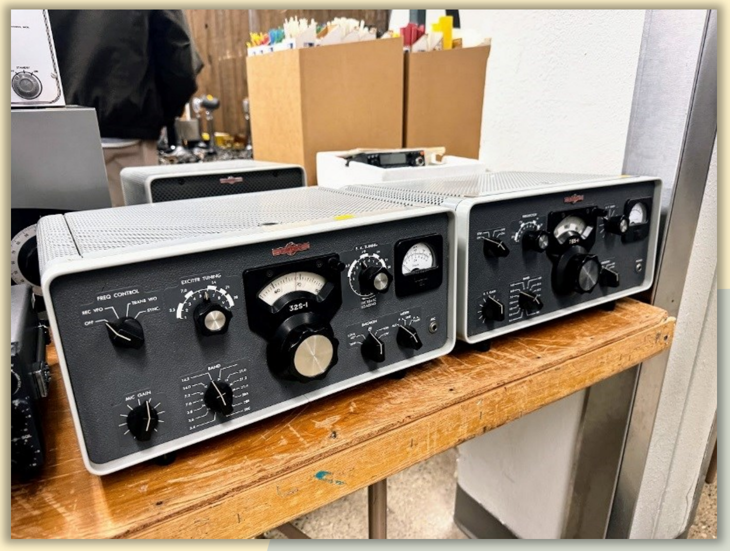
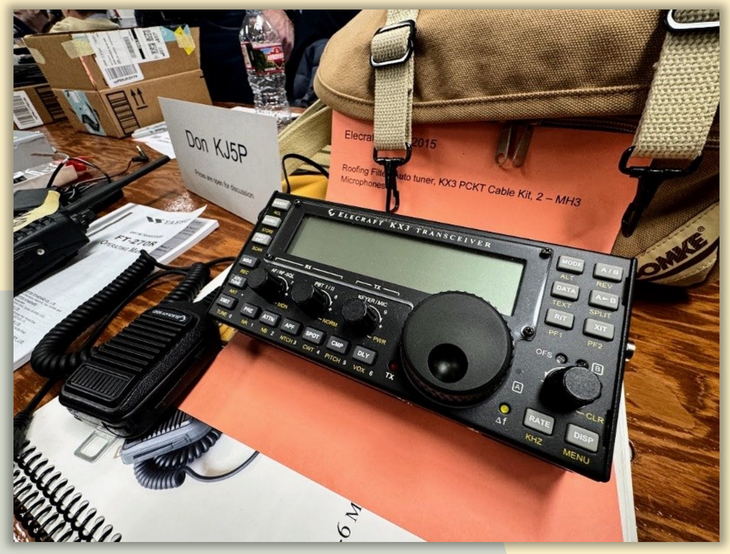
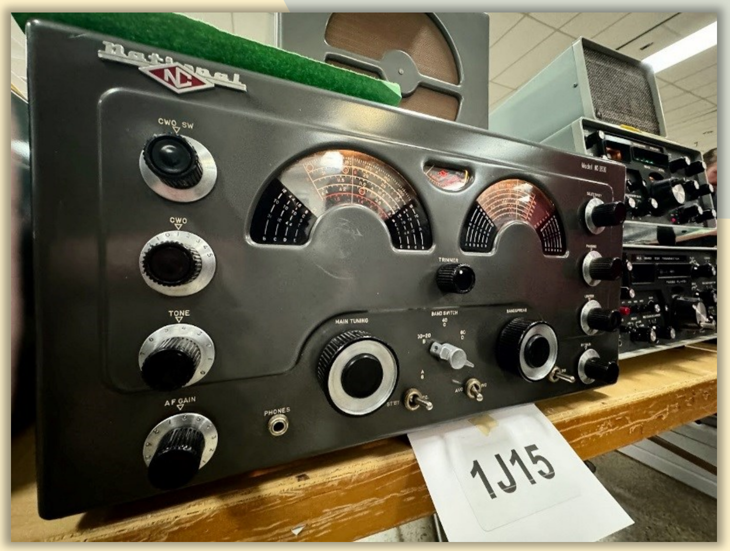


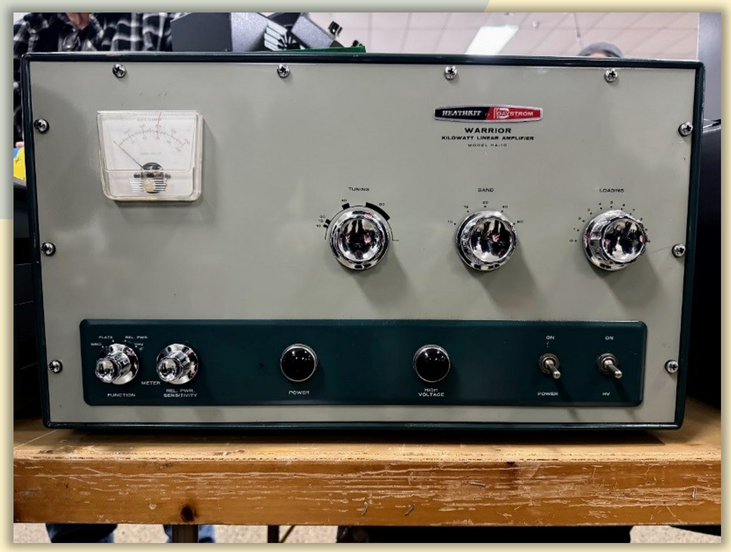
I never tire of seeing Collins S-Lines at Ham Fests. Sigh. $1000+ still to this day


Don KJ5P
ELECRAFT KX3 TRANSCEIVER

Just a little bit more you can have a KX3 with vastly more features (albeit, much less power)


National
1J15

The National NC-183D was one of the purtiest art-deco receivers ever made—and it was a really solid performer as well.


HEATHKIT
WARRIOR

Heathkit Warrior linear amplifier in pristine condition… 90 pounds of watts from 1961

All photos this page provided by Dave W7UUU

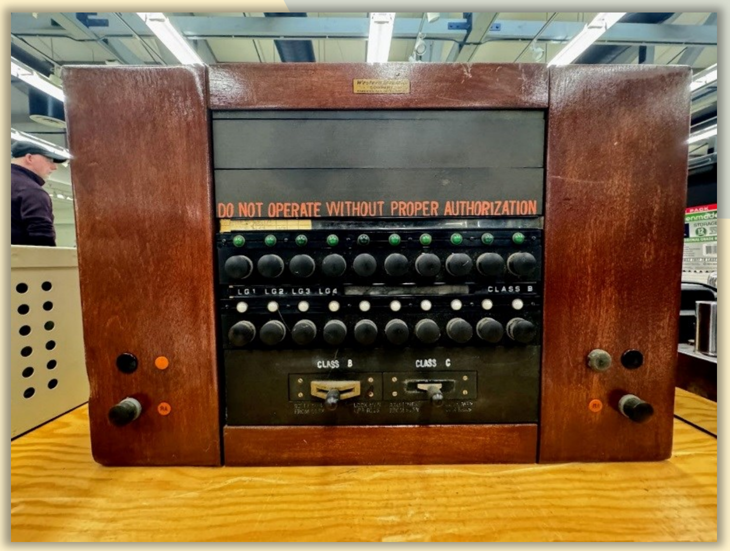
MIKE & KEY
SEATTLE
AMATEUR RADIO CLUB
W7DK

MIKE & KEY HAMFEST

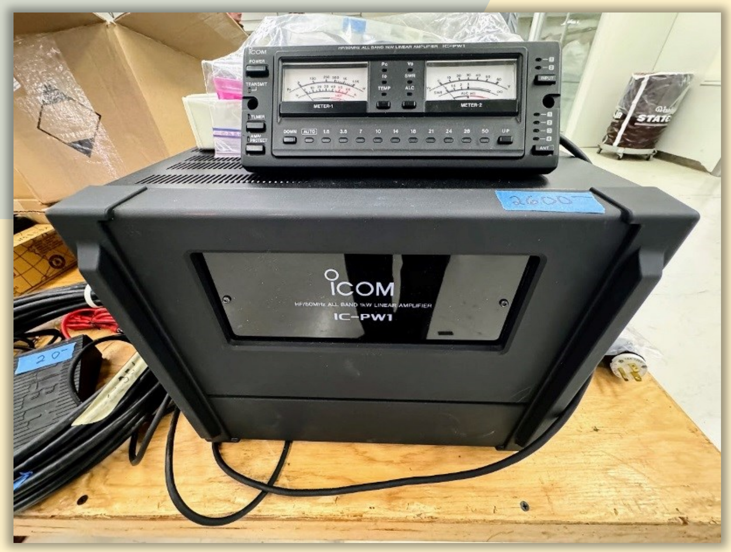
W7DK Annual participation in this large event

Ken (not a ham) has been coming to M&K for 20 years selling computer parts...

...and even his old euphonium that he played for many years before losing interest.


DO NOT OPERATE WITHOUT PROPER AUTHORIZATION

I desperately wanted to "operate" this cool old Western Electric telephone gizmo but alas, I lacked proper authorization!


ICOM
IC-PW1
2600

I don't know about you, but I'd NEVER think to bring $2600 cash to a ham fest and take a risk like that on a spendy amplifier!

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Dave W7UUU

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Manning the booth for the Museum of Flight:
Ray KB7OPQ, John KA7TTY, & Chuck K7MCG

MASON COUNTY AMATEUR RADIO CLUB
MASON COUNTY
SUPPORT
SAFETY
SERVICE
SCIENCE
MCARC
N7SK
WASHINGTON

Never knew there was a club in Mason County!
Well, there is! It's out in Shelton… check 'em out!

CAPITOL PEAK REPEATER
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One of the biggest repeater groups in the region,
with one of the farthest-reaching repeaters…
Capitol Peak Repeater Group

W7DK member Paul KG7FTN helps staff the
Capitol Peak Repeater group booth

All photos this page provided by
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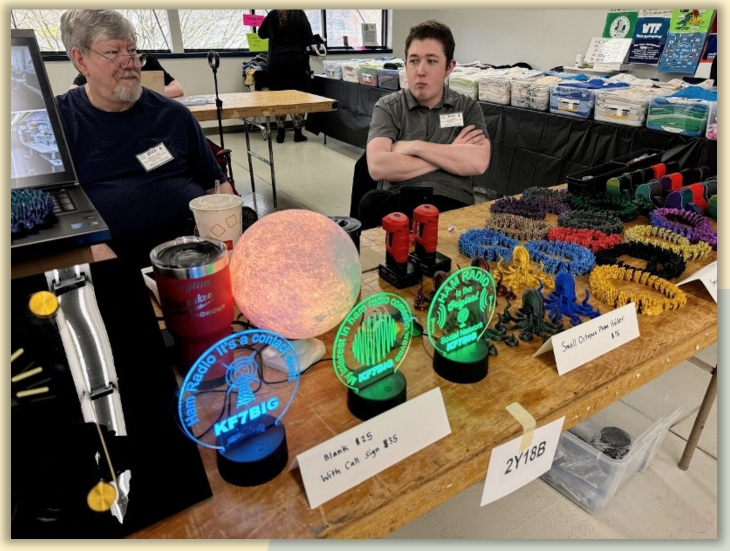
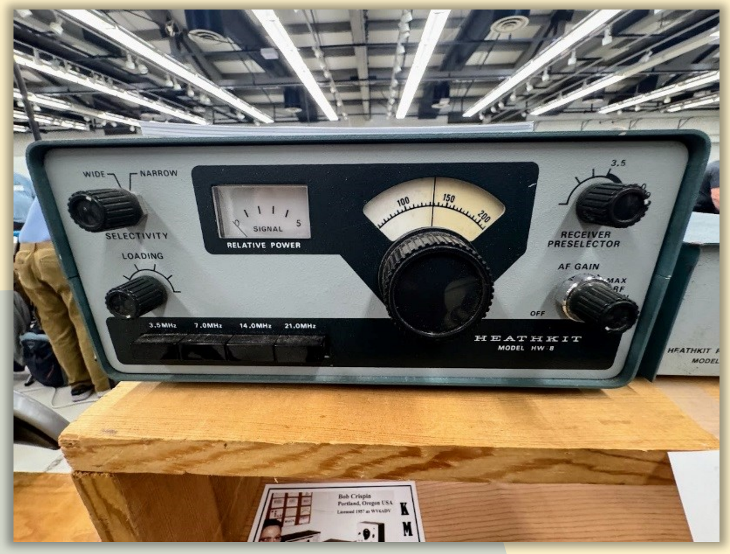
MIKE & KEY HAMFEST

W7DK Annual participation in this large event

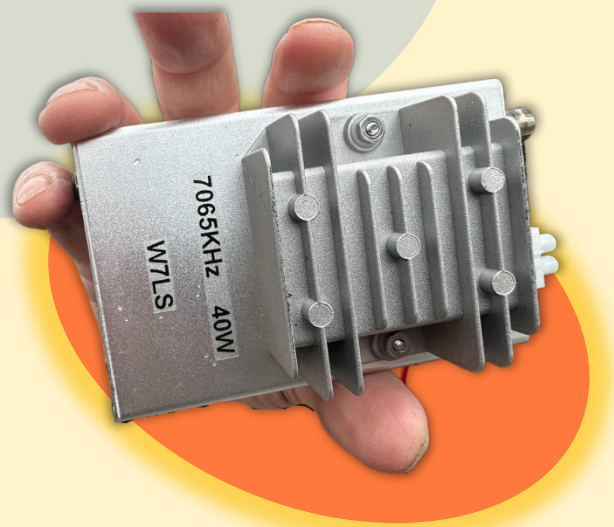

KF7BIG
Blank $25
With Call Sign $35
2Y18B

All sorts of custom ham decorations were available from many vendors


SELECTIVITY
LOADING
SIGNAL
RELATIVE POWER
RECEIVER PRESELECTOR
AF GAIN
HEATHKIT
MODEL HW-8

One of the icons of the QRP world: The venerable Heathkit HW-8 designed by Bob Furnau, W8NDG (SK)

Jim W7LS shows me his super-cool tiny 40w 40m CW transmitter


7065KHz 40W
W7LS

Closeup of the transmitter showing the power inverter. It's a homebrew by a friend of his

All photos this page provided by
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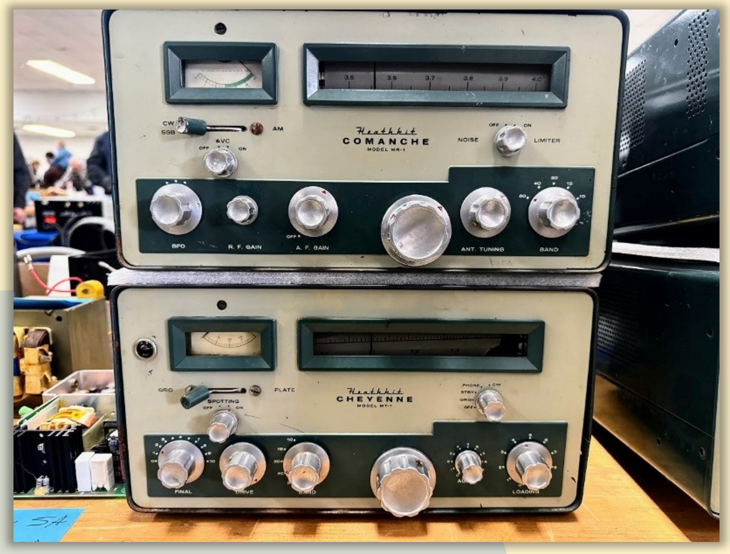
MIKE & KEY HAMFEST

W7DK Annual participation in this large event

W7DK

Lynn WR7G and Con WA7E chat about Collins aviation radio systems in Boeing jets


Heathkit
COMANCHE
Heathkit
CHEYENNE

Roger Mace of the Heath Co. was responsible for a number of rigs having Native American names but after he left, they were changed back to model numbers

PAYOUT
END
MX-306A/G
ROME CABLE CORP.
1951

1951 vintage reel of military communication wire—was still in use into the late 1980s

Hi-Tech LIQUIDATORS/
Northwest Radio
NNECTORS
VISA

A staple at many ham fests, Hi-Tech Liquidators/Northwest Radio was at the M&K

All photos this page provided by
Dave W7UUU

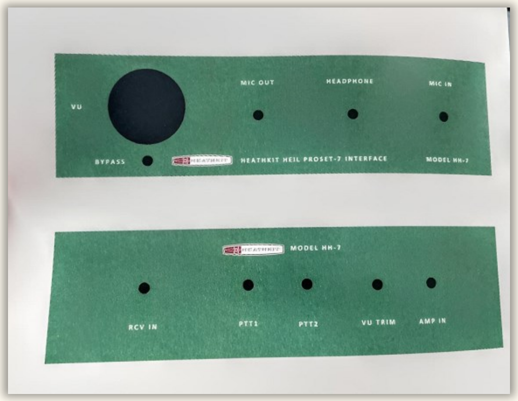
HAM RADIO
HOSPITAL
Where sick radios come back to health

FOR A NUMBER OF YEARS I was a pretty heavy-duty Heathkit radio collector and restorer, culminating in my K1T Special Event Station in 2017 commemorating the 70th year since the first electronic Heathkit came out. Up until October 25, 2020 I maintained some 19 prime Heathkit transceivers, transmitters, receivers, and accessories. But that October evening it all changed when a fire broke out and everything in the shack was almost completely destroyed.

A few of the items I had built myself—I call them "Fake Heathkits" in that they just look like a Heathkit product, but provide a needed function that Heath never thought of. By creating my own artwork, I could make my homebrew stuff look just like it was made in Benton Harbor.

MIC OUT
HEADPHONE
MIC IN
VU
BYPASS

One of those items I dubbed the HH-7 which was an impedance converter and signal level meter for using a Lo-Z Heil Pro7 headset with a Hi-Z Heathkit transmitter. In my rebuilt station, I do have a few Heath rigs and recently wanted to resurrect the HH-7 for use with them.



Panel artwork as described in the text

I had kept the box but it was badly damaged in the fire. The nice thing about my artwork process is that if it gets messed up, I just strip the device back down to the chassis, and redo the artwork!

In the case of my "Fake Heathkits" I use Microsoft Publisher to create the artwork design. I then print mockups at home, try on for fit, rework in the software, and repeat—often as many as a dozen times before I get it right. But once my "cut and try" fits the box, and the cutout holes for controls and such are spot on, I take the file to Office Depot (the one on 23rd in Tacoma has the best color laser printing of any of them—I've tried them all!). They print it on 12-point glossy cover stock, and I usually print at least three sets just in case I screw things up during installation. But before I could refinish, I had to completely disassemble the unit and make sure it still worked inside (it did!). Built in the case for an old Heathkit HD-15 phone patch, it's very easy to source a replacement panel meter. The HD-15s often sell for $1 to $5 at a ham fest and I buy them up when I see them for use as project cabinets.

It took a lot of elbow grease but I was able to strip the old artwork off, then scrub the ooze and soot from the fire so I could repaint it.

Back when I did my 19 Heathkits restoration project, I bought up quite a bit of "Heathkit Green" spray paint from an eBay seller (now gone). I was fortunate that I still have several cans left so it was super

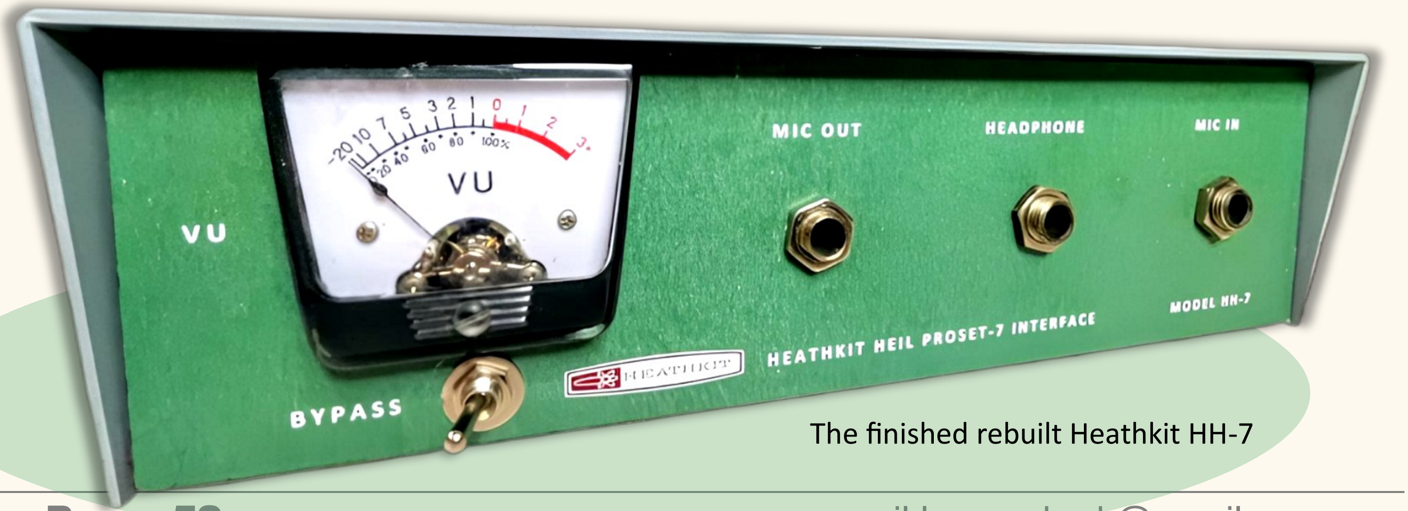
HAM RADIO HOSPITAL
Where sick radios come back to health

easy to repaint the box as good as new. Once painted, the final step was to cut out the front and rear panel artwork and reapply using Scotch 77 spray adhesive. I then used an X-Acto knife to cut the holes for all the jacks, controls (rear panel) and the meter. Once reassembled, it was as good as new and back on the air on my SB-104A! ■ *-editor*

MIC OUT
HEADPHONE
MIC IN
MODEL HH-7
HEATHKIT HEIL PROSET-7 INTERFACE
BYPASS
VU

HYBRID PH
MODEL HD-15

Clockwise from left: disassembly of the burned unit, checking operation; stripping the old artwork off to prepare for new artwork; repainting the box and lid with Heathkit SB-color spray paint


VU
MIC OUT
HEADPHONE
MIC IN
MODEL HH-7
HEATHKIT HEIL PROSET-7 INTERFACE
HEATHKIT
BYPASS

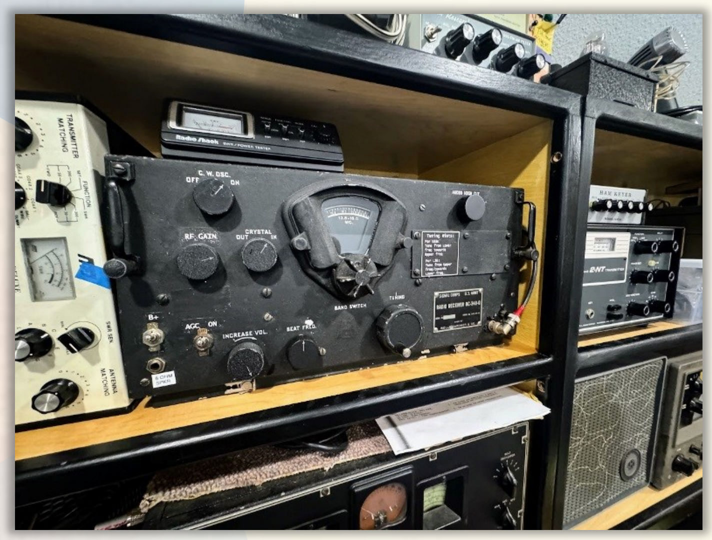
The finished rebuilt Heathkit HH-7

W7OS DOC SPIKE MUSEUM

Museum updates from the Curator

Guest Column by:
Dave W7UUU

Dan
KD7SV



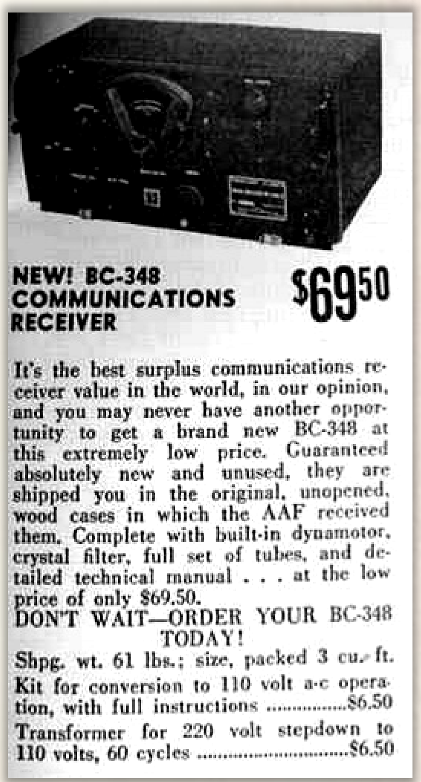
TUCKED ON A SHELF in the W7OS Doc Spike Museum is a piece of gear that's not only an historical artifact of ham radio but is also an historical artifact of World War II. It has a face that some say "only its mother could love", while others consider it an art-deco thing of beauty. I'm speaking of course about the heavy black receiver in the photo above. This is the iconic Signal Corps BC-348Q US Army receiver with coverage of VLF, 200 to 500 KHz, as well as five of the HF bands from 1.5 to 18.5 MHz The BC-348 was used as the long-distance receiver in large aircraft such as the B-29 from the war years into the early 1950s.

The design is a single-conversion superhet with an IF frequency of 915 KHz, with switchable AVC or manual RF gain, a BFO for CW reception, crystal filter for selectivity, 3 IF amp stages and 2 RF amp stages. Since the receiver was designed to operate in aircraft, there was no built-in AC power supply. Instead, a device called a Dynamotor was used to convert the 28 VDC power available in the plane to 110 volts to power the tube circuitry of the receiver.

There were many variations of the BC-348 (and its brothers the BC-342 and BC-312) but they are fairly subtle and beyond the scope of this article. Far and away the most popular variant is the BC-348Q, and most of the receivers were manufactured under a government contract by a firm called Wells-Gardner, a long-standing electronics manufacturer founded in 1925 and based in McCook, Illinois.

After the war, many thousands of these receivers hit the surplus market and hams began snatching them up. When they first hit the market in November 1947, a brand-new-in-the-box BC-348 could be had for $69.50 ($965 in today's dollars). In 1947 the minimum wage was $0.43, a loaf of bread was 13 cents, and a gallon of gas 15 cents. So it was definitely spendy but for the quality of receiver you got, you'd be hard pressed to find better at that price. Sales were so brisk in fact that by 1949 they had more than doubled in price to $149.50

Before one could be used in a ham station, the user would have to either provide the 28VDC to power the noisy dynamotor, or what was far more frequently done, build an external AC power supply or cram the circuitry inside the cabinet.



NEW! BC-348 COMMUNICATIONS RECEIVER $\$69^{50}$

It's the best surplus communications receiver value in the world, in our opinion, and you may never have another opportunity to get a brand new BC-348 at this extremely low price. Guaranteed absolutely new and unused, they are shipped you in the original, unopened, wood cases in which the AAF received them. Complete with built-in dynamotor, crystal filter, full set of tubes, and detailed technical manual . . . at the low price of only $69.50.

DON'T WAIT—ORDER YOUR BC-348 TODAY!

Shpg. wt. 61 lbs.; size, packed 3 cu. ft.

Kit for conversion to 110 volt a-c operation, with full instructions $6.50

Transformer for 220 volt stepdown to 110 volts, 60 cycles $6.50

November 1949 QST Ad ©ARRL

W7OS DOC SPIKE MUSEUM

Museum updates from the Curator

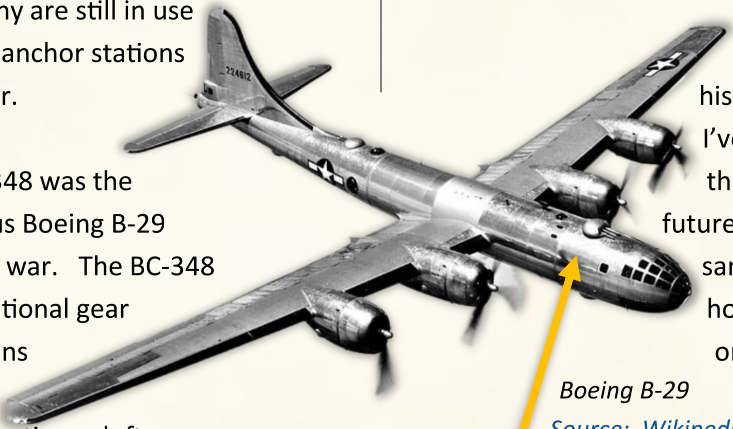
Guest Column by:
Dave W7UUU

Dan
KD7SV

By the standards of amateur radio at the time, the BC-348 was considered to be a very capable shortwave receiver. Even today many are still in use as part of nostalgic boat anchor stations and being used on the air.

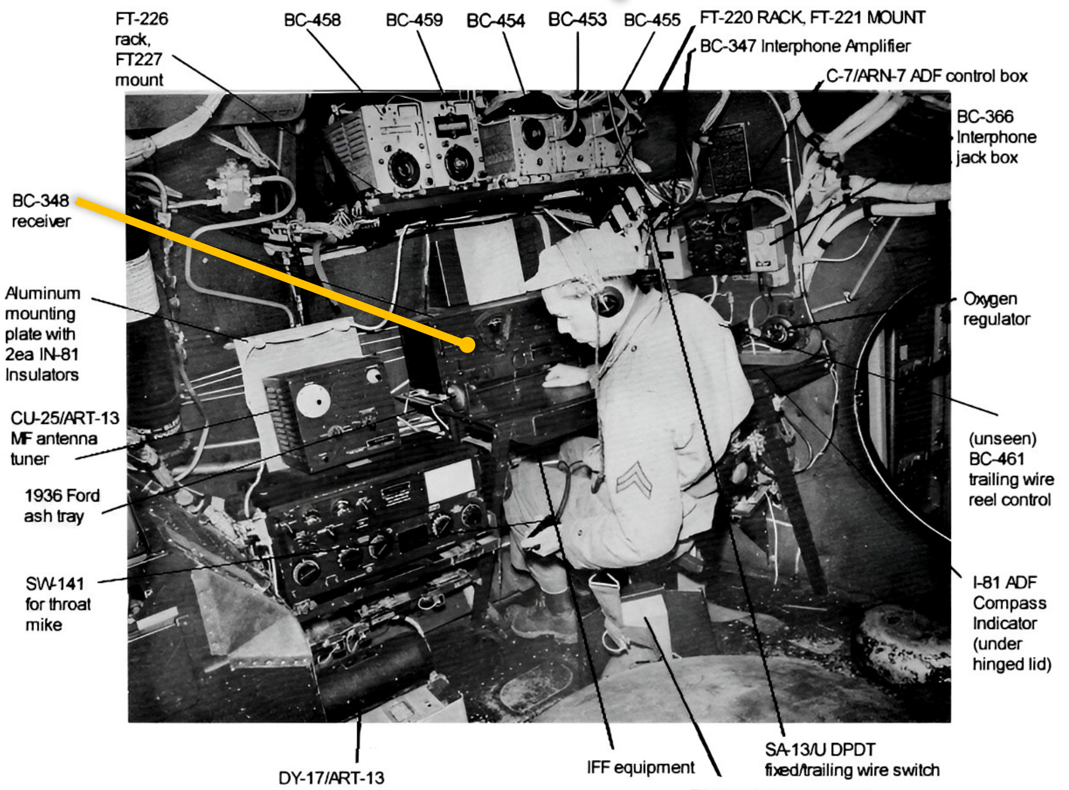
One of the best-known deployments of the BC-348 was the setup used in the famous Boeing B-29 Superfortress during the war. The BC-348 along with a host of additional gear was paired with the Collins AN/ART-13 transmitter for long-range communications aloft.

At a recent ham fest I came across a fully restored BC-348Q in 100% operational condition and I'm still sort of kicking myself for not picking it up for $100! What a great old piece of history—ham history as well as WWII history—for a great price. But I've told myself that should I see that same receiver show up at a future ham fest I won't make the same mistake and it will come hope with me and get some time on the air! ■ *-editor*



Boeing B-29

Source: Wikipedia


FT-226 rack, FT227 mount
BC-458
BC-459
BC-454
BC-453
BC-455
FT-220 RACK, FT-221 MOUNT
BC-347 Interphone Amplifier
C-7/ARN-7 ADF control box
BC-366 Interphone jack box
BC-348 receiver
Aluminum mounting plate with 2ea IN-81 Insulators
CU-25/ART-13 MF antenna tuner
1936 Ford ash tray
SW-141 for throat mike
Oxygen regulator
(unseen) BC-461 trailing wire reel control
I-81 ADF Compass Indicator (under hinged lid)
DY-17/ART-13
IFF equipment
SA-13/U DPDT fixed/trailing wire switch
Flight suit heater control

Source: Hackaday

Cockpit view of the array of communications gear inside the B-29. The radio desk was situated just aft of the pilots and flight engineer positions. BC-348 at center

MIGHTY DK! QSO REPORT

Reporting all the HF QSO action from the club

14.025.000
W7DK

EACH MONTH in the Bark, the Radio Club of Tacoma recognizes the members and guests who have made non-contest QSOs using the HF stations at our clubhouse. Saturday Open House, especially, is a time when members have access to this equipment. Why not sit down at one of our operating desks and make a contact or two? Assistance is almost always available for those unfamiliar with the equipment, and if your license class doesn't permit HF operation, ask the denizens of the HF Room or the Saturday clubhouse host to help you find a suitably-licensed control operator to sit with you.

It's a feather in the club's hat for the call sign of The Mighty DK to be heard on the airwaves. So get on the air and get your name in the Bark! (Don't forget to *enter your call sign* as the operator into our logging program.) ■ *-editor*

Above: The awesome new Icom IC-7610 in operation!

Below: Mike, W7MKE working the ARRL SSB DX contest

Clubhouse QSOs during this period:

NAME	CALL	QSOs
Mike	W7MKE	48
Becky	KG7FZH	11
Al	N7OMS	10
Unknown	Unknown	2
Mike	W7XH	2
Chris	KK7RLT	1

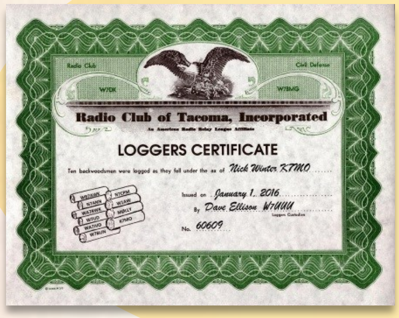
Photos this page provided by
Dave W7UUU

W7DK LOGGER'S CERTIFICATE

Classic "first award" for Members

HAVE YOU APPLIED for your own W7DK Logger's Certificate?! It's FREE and it's EASY! All you have to do is work at least 10 members of the Radio Club of Tacoma, then send in your list of call signs worked, and BAM! We'll print out your certificate and get it too you toot sweet by US Mail.

There are no confirmations required—no logs to submit—and really no rules other than the call signs you submit must be members of the club. You may work them on HF, 2m FM, on FT8 or SSB or any other mode! In fact, one of the best ways to get your 10 contacts is to check into the weekly Tuesday Night Net on the 147.28 club repeater… every Tuesday at 7:30 PM.



Radio Club
Civil Defense
W7DK
W7BMG

Radio Club of Tacoma, Incorporated

An American Radio Relay League Affiliate

LOGGERS CERTIFICATE

Ten backwoodsmen were logged as they fell under the ax of Nick Winter K7MO

Issued on January 1, 2016

By Dave Ellison W7UUU

Loggers Custodian

No. 60609

This venerable award was first launched in 1957, using certificate paper printed by club member Dick Ryan, W7RGD who was a printer by trade.

As of the date of this publication, there have been 691 certificates issued, including a few reissues over the years to replace lost certificates.

The original certificates were hand-lettered by long-time RCT member Barbara Osborne, W7UYL (SK 2022), and all of the records were kept in a series of recipe boxes still held by the club.

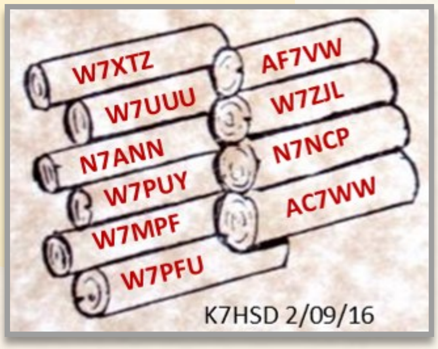
We still have a huge stash of this beautiful OFFICIAL logger's Certificate paper…. So if you do not already have yours, just shoot us an email with your list of call signs worked, and put "Logger's Certificate" in the subject line…

Send to loggersbark@gmail.com

Radio Club Of Tacoma
Christmas
Message
Service
★Free delivery of all messages
★Xmas Greetings Home
Inquire at the desk

Barbara Osborne W7UYL ca. 1955 at an RCT USO event

We also issue "Log Piles" for endorsements of each group of ten additional stations worked! So don't hesitate—get your Logger's Certificate or Log pile Endorsement *today!* *Aston Martin*



W7XTZ
W7UUU
N7ANN
W7PUY
W7MPF
W7PFU
AF7VW
W7ZJL
N7NCP
AC7WW
K7HSD 2/09/16

Wanna get yours? Send in those contacts!

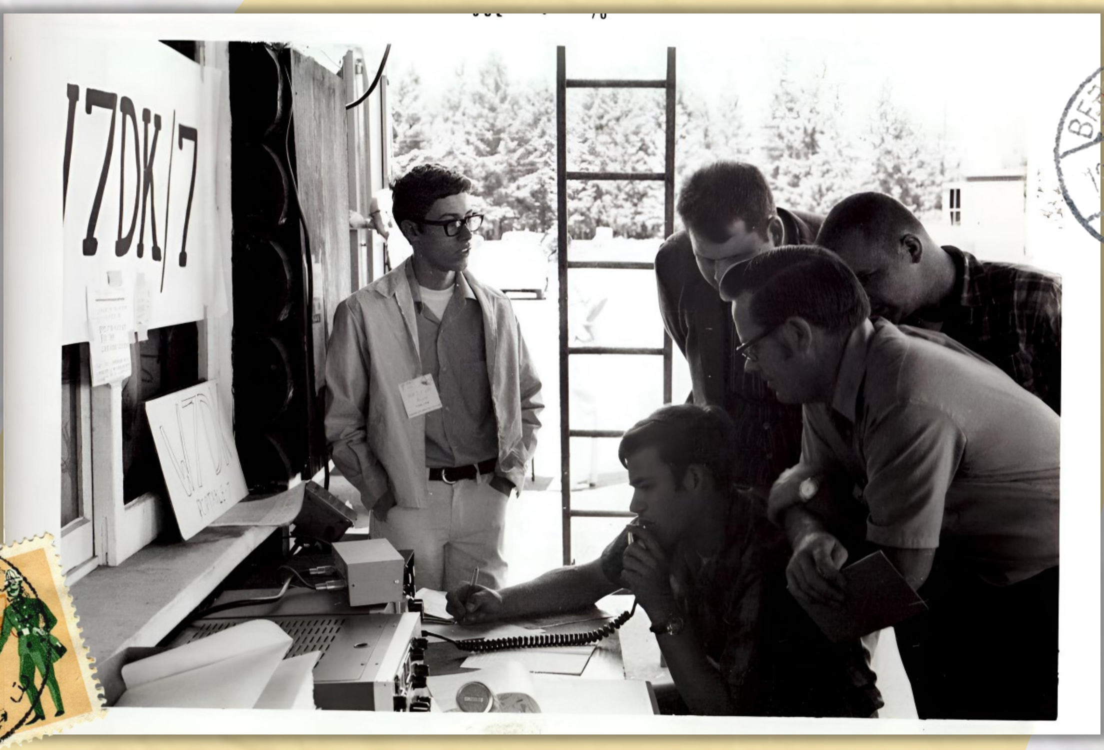
THE WAY BACK PHOTO BOOTH

Highlighted photos from the club's past

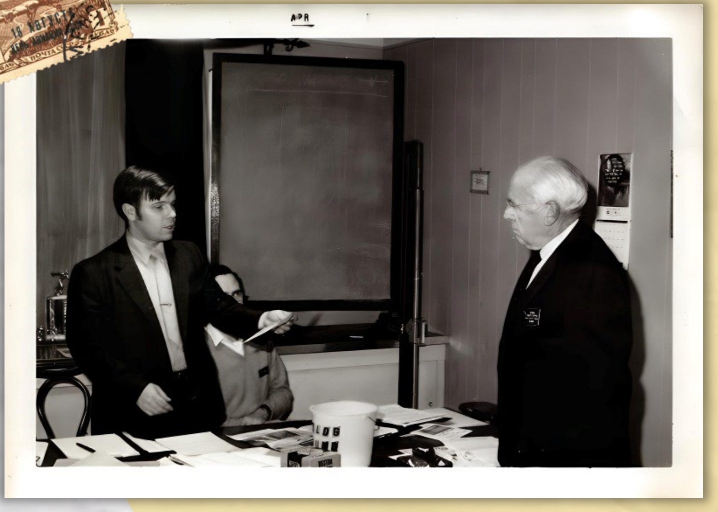
Researched & Compiled by the Editor

Photo: Jim W7LS

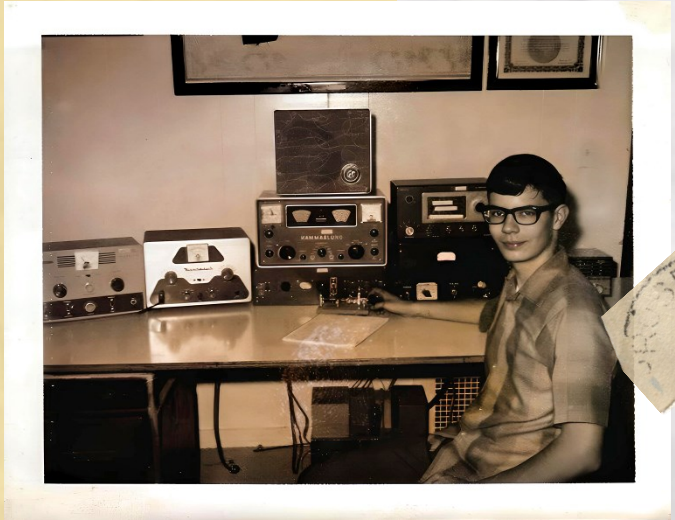
Have an old photo to share?



Nick Winter K7MO (then WA7IVO) on left—at the W7DK/7 station, July 1970 Hamfair at the Sportsman's Chateau in Spanaway, WA. On microphone is Larry Ziglar WA7JPC. ARRL SCM Harry Lewis W7JWJ in glasses looks on. Tom, big guy in back is Tom WA7FKM. Right rear man unknown



Dennis "Denny" Reanier, W7UBA, left, was club President in 1971 when this photo was taken. Conferring with Doc Spike, W7OS for whom the museum station is named and dedicated



Young Chip Margelli, K7VPF (later K7JA (SK)) at his station ca. 1970. Chip was one of the best CW ops in ham radio ever

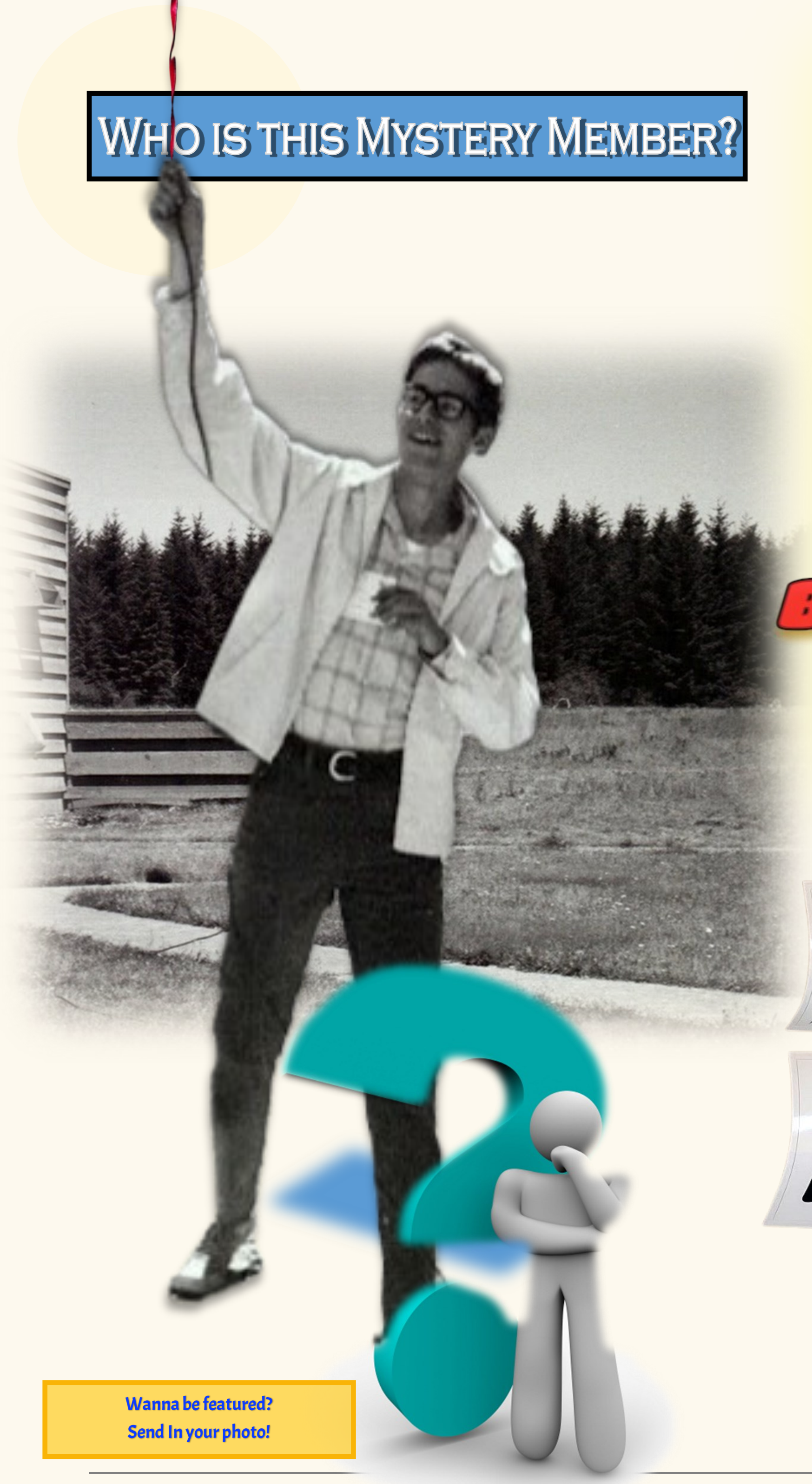
THE WAY BACK PHOTO BOOTH

Highlighted photos from the club's past

Researched & Compiled by the Editor

Photo:
Jim W7LS

WHO IS THIS MYSTERY MEMBER?



If you think you know who our Mystery Member is, just send an email with your guess… first correct responder will win a

FREE QRZ Bumper Sticker!

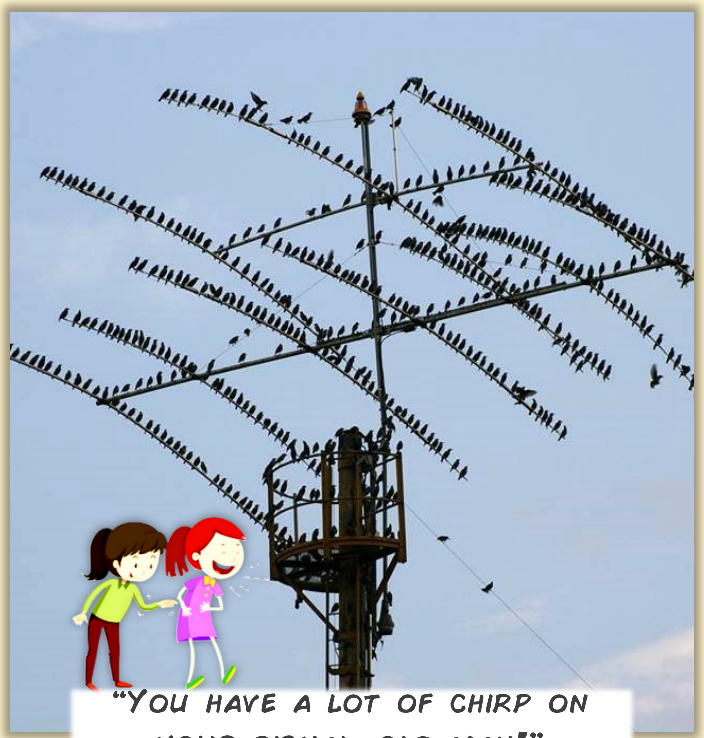
Mailed right to your door!

HIGH VOLTAGE
AMATEUR RADIO
73!
QRZ
I BRAKE FOR QRZ HAMFESTS!
73!
QRZ
I'm good on QRZ.COM

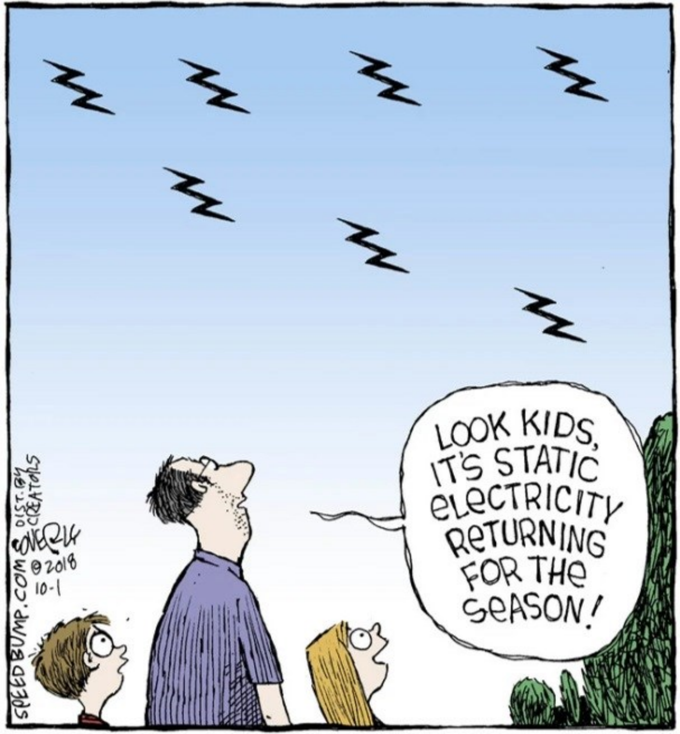
Wanna be featured?
Send In your photo!

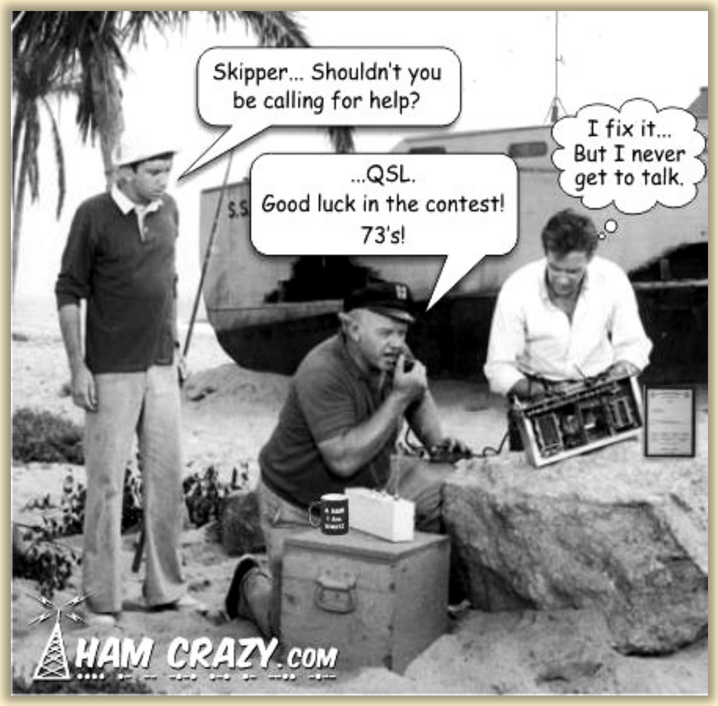
THE FUNNY PAPERS

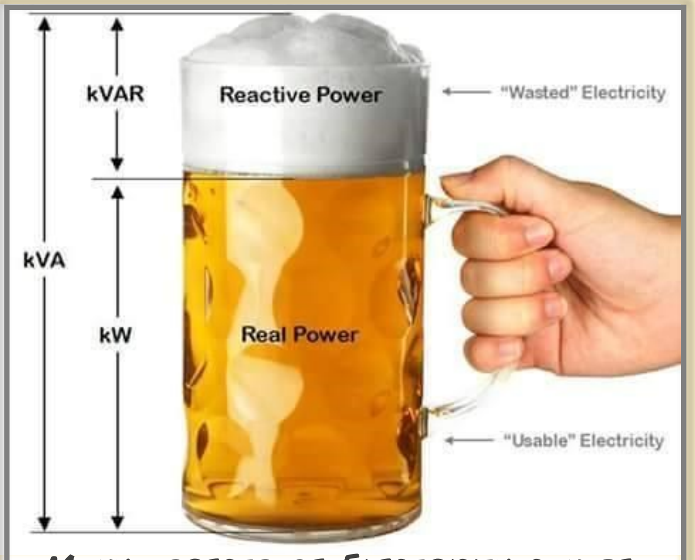
Ham Humor for Humorous Hams



“You have a lot of chirp on your signal, old man!”


LOOK KIDS, IT'S STATIC ELECTRICITY RETURNING FOR THE SEASON!
SPEEDBUMP.COM
DIST. BY CREATORS
©2018 10-1


Skipper... Shouldn't you be calling for help?
...QSL. Good luck in the contest! 73's!
I fix it... But I never get to talk.
HAM CRAZY.COM


kVAR
Reactive Power
"Wasted" Electricity
kVA
kW
Real Power
"Usable" Electricity

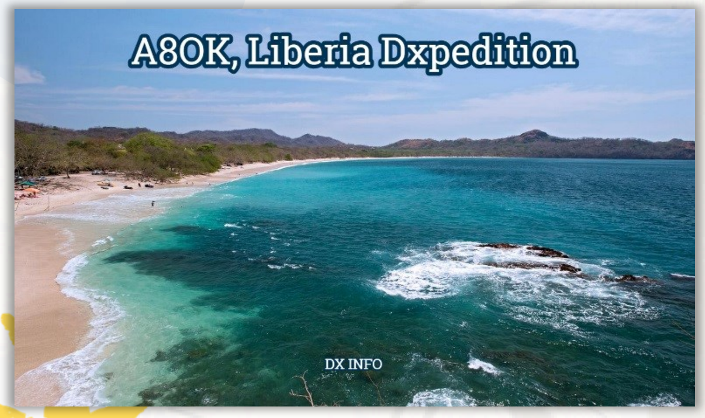
Many aspects of Electricity can be explained by beer!

Got a ham radio funny? Send it in!!

email loggersbark@gmail.com

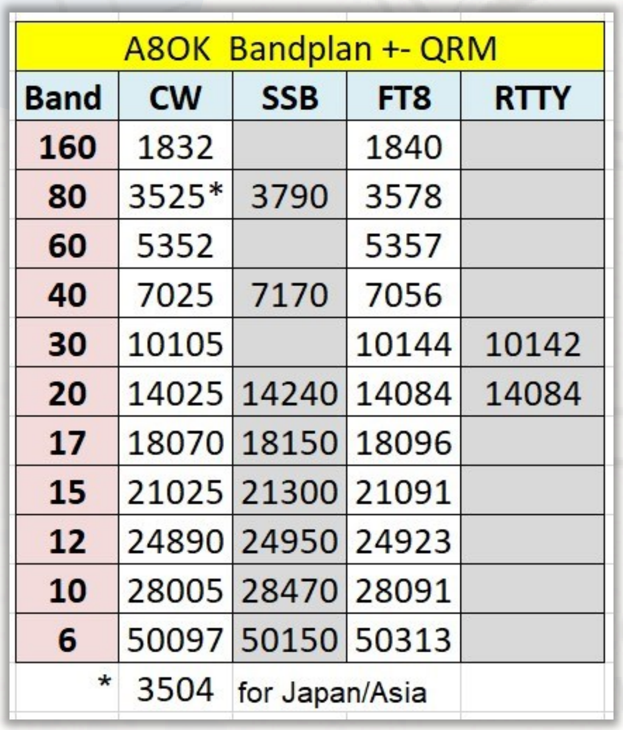
HOW'S DX?

DXpeditions and Notable DX operations



The upcoming A8OK Liberia DXpedition is well underway! Operation is set to begin on April 5th and concluded the 19th.

Operators will be Petr OK1BOA, Petr OK1FCJ, Palo OK1CRM, Pavel OK1GK , Ruda OK2ZA, Ludek OK2ZC, Karel OK2ZI, and David OK6DJ operating all the standard modes. And amazingly, they will be on ALL amateur bands from 160 to 6 as well as on three satellites! This should be an astounding operation. Click on the band plan image below to visit their official site.



A8OK Bandplan +- QRM

Band	CW	SSB	FT8	RTTY
160	1832		1840	
80	3525*	3790	3578	
60	5352		5357	
40	7025	7170	7056	
30	10105		10144	10142
20	14025	14240	14084	14084
17	18070	18150	18096	
15	21025	21300	21091	
12	24890	24950	24923	
10	28005	28470	28091	
6	50097	50150	50313	
*	3504	for Japan/Asia		

A8OK Liberia DXpedition band and mode plan

Bhutan:
A52CI
A52P
April 19 - May 4, 2024

In preparation for upcoming (**April 19 - May 4**) A52P and A52CI DXpedition operators SP9FIH, Janusz, and SP6CIK, Les, make three simple requests:

- **Do not** make duplicate contacts.
- Please **listen** before you call.
- **Do not** ask for our callsigns.
- When calling, give your **full callsign**, not two or three letters.

We would like to thank Junichi JH3AEF who shared his experience and photos of his operation from Bhutan.

It is extremely difficult to find a good QTH in Bhutan. The country is very mountainous with deep valleys surrounded by steep mountain ranges. Moreover, there is a high level of electromagnetic interference in the valleys.

We will stay high in Dochula Eco Retreat near Dochula Pass at about 3070m above sea level. Seems to be good open area short path to USA, Europe and Japan. However long path to North America will be through mountain range 3500m about 2 km from our hotel, so rather rely on on a short path.

Website link: https://a5.dxpeditions.org/

73 from A52P & A52CI

POTA / SOTA

Parks & Summits on the Air Activities

BJ Rollison WA7WJR

FEBRUARY WAS AN off month for *club* POTA activities; however, not for my *own* POTA activations. While the weather was cold and rainy here in the Pacific Northwest, I decided to get on a plane to fly someplace a little warmer, so I travelled to the Philippines and Vietnam to activate 4 different parks in the Philippines and 2 new parks in Vietnam as I continue my 1-man DX-peditions.

While there is some limited POTA activity in the Philippines, 3 of the 4 parks I visited in that country had never been activated. Vietnam is a very different story. Due to licensing restrictions in Vietnam, there is zero POTA activity other than the 3 parks I have activated so far.

Traditional nipa hut in Philippines. No-frills accommodation, but comfortable and quiet.

Working portable presents unique challenges but travelling abroad to a different country brings its own set of obstacles to navigate. First and foremost is navigating the licensing requirements and paying the necessary fees. Some information is available online, but it often takes several emails to get the process started, and constant communication to complete the requirements. Getting the license is key because some countries like the Philippines and Fiji may confiscate your radio equipment on arrival if you don't have a copy of the license in hand.

The next challenge with a 1-man DX-pedition is putting together a radio kit that will fit into an overhead compartment on the airplane; I never put radio equipment into checked luggage. I have been going on 1-man DX-peditions since 2017, and each trip provides new insights and adjustments. Currently, my entire kit and 1 week of clothes to fit into a 40-liter camera backpack. For this trip I also took my Buddipole dipole antenna with an 18' mast which was also allowed as carry on. I opted for this mast and antenna setup because it would be easier to transport in Vietnam when I would be travelling by motorbike to get around.

Got a POTA story with pics? Send it in!

POTA / SOTA

Parks & Summits on the Air Activities

BJ Rollison WA7WJR

Finally, there are the travel and lodging arrangements. Lodging can be challenging, especially if you want to be near or inside of a park. In the Philippines, I first stayed at a hotel in Angeles City. I used this as my jump-off point because I had not been to Angeles City since I was stationed at Clark Air Base from 1979 to 1981. Things have certainly changed!

Mount Arayat was the first park, and it was an easy 1-hour drive from the city. But Aurora National Park was a 4-hour drive, so I opted to stay in a nipa hut at an eco-resort for a few days. Nipa huts are short on amenities, but more comfortable than a tent. Vietnam does not allow portable operations, so each operating location must be listed on your license, and before you can list a physical address on your license you must first obtain permission from the lodging facility to set up a portable antenna and operate your radio.

My first lodging here was a nice hotel on the outskirts of Ho Tran. And the second park was deep inside the Mekong delta region where I stayed in a “floating house” in a mangrove forest. One-man DX-peditions often require months of pre-planning and preparation, and you can’t always plan on 2-star accommodations!

BJ, WA7WJR operating from the top of Mount Samat in Bataan National Park

February is an ideal time to visit Southeast Asia because it is the cool season, and there is less chance of rain. Unfortunately, the band conditions and some operating locations were not ideal. I was able to work in a few phone contacts, log about 100 RTTY contacts during the CQ WW RTTY contest, and a few CW QSOs for the ARRL CW DX contest. But most of my contacts on this trip were made using FT8 mode due to high noise levels at

Got a POTA story with pics? Send it in!

POTA / SOTA

Parks & Summits on the Air Activities

BJ Rollison WA7WJR

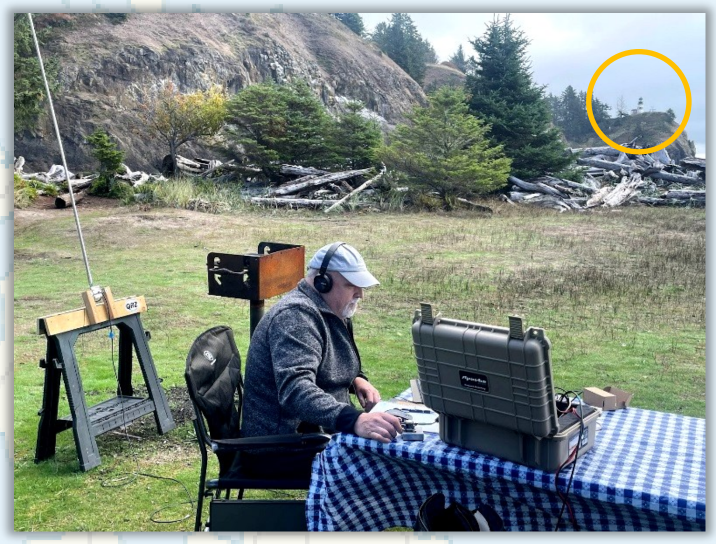
all operating locations, and a lot of atmospheric fading.

As with all my DXpeditions, I learned some valuable lessons, met with radio amateurs in each country, and of course had the opportunity to visit some amazingly beautiful and intriguing places and add wonderful experiences to my memories!

Right: Motorbike is the easiest way to travel in Vietnam. Just have to be a little crazy.

Bottom: Tet holiday in Vietnam is always colorful.

THIS MONTH THE POTA committee is planning another overnight POTA activation to coincide with POTA's Support Your Parks Weekend (April 20-21) at Cape Disappointment State Park staying in the Assistant Lighthouse Keepers Quarters which can accommodate up to 4 people. The plan is to stay Friday night April 19th, and Saturday night (April 20th) with a checkout on Sunday. The cost is $110 per person paid in advance by March 31st. If you are interested, please email BJ as soon as possible.



Dave W7UUU operating POTA from Cape Disappointment in October 2023, on the beach below the lighthouse (inset, barely seen in the top right of the photo. It was actually this photo from this activation that was used for the banner at the top of the POTA / SOTA page in the Logger's Bark

Photo by: Anne N7ANN

Got a POTA story with pics? Send it in!

KD8NOM DEARS Youth Group
TRI-VALLEY

YOUTH ON THE AIR

Programs and stories for Youthful Hams

By Steve AF7YD

AS I ENDEAVOR TO take on this column, and gain my sea legs here, I will be attempting to connect the many people and clubs to move Ham Radio into the youth of their communities. There are many challenging aspects to bringing today's youth to ham radio.

My primary questions are: *What approaches does it take to successfully engage our youth with Ham Radio?* And in a practical sense, *How do we go about doing that?* We are all volunteers with a full plate of other obligations. So how can we further the future well-being of Ham Radio through our young?
At this moment, I'm thinking, *"look for the synergy"*. And that is much of what this column will be about. I am seeking to create a Northwest network of hams advocating and participating in furthering the exposure, education and training of youth, and hopefully exciting these youths with a passion to want to participate.

At the Mike & Key ham fest last week end, I randomly met a number of people who themselves or their clubs were actively participating in some form of youth outreach. I heard *several* inspiring stories.

I realized I was not aware of their activities, and committed to creating a network among us who are actively participating in some form of ham radio outreach to our youth. This will be just an email list for now. Later I will come up with some form of more sophisticated electronic networking. If this sounds like something that interests you, I would love to hear from you. Tell me in a few words about you and your club's youth outreach interests and activities.

My call sign is AF7YD and you can reach me via email at stevedightman@rainierconnect.com

Here is our recent story at W7DK Radio Club of Tacoma (RCT). As you may be aware, this past January, RCT and Camp Quest Northwest partnered for 3 days and nights of focused immersion with a group of high school students, all preparing for the Technician Exam. Training was detailed and involved actually understanding the license content and materials. The event took place at Radio Club of Tacoma clubhouse. If you have not yet read the article, it's in the Loggers Bark, March 2024, pp 53-58, *do so now*. It was a real ***blast*** participating with these high schoolers!

We fully expect this RCT and CQNW partnership to continue and grow. CQNW conducts 2 week-long camps for youth aged 8 to 17 at different venues during the summer months. Currently we are jointly exploring the ideas of conducting hidden-transmitter hunts, and planning for the equipment needed. Now that five of the camp counselors are licensed as a result of this recent event, ham radio experiences are going to be further integrated into the weeklong camps.

Got a Youth radio story? Send it in!

KD8NOM DEARS
Youth Group

YOUTH ON THE AIR

Programs and stories for Youthful Hams

By Steve AF7YD

Please take some to read about this great organization here: [Camp Quest Northwest](#).

And a big shout-out of **CONGRATULATIONS** goes to Eman KK7QLW, one of the counselors from the January RCT-CQNW Radio Weekend, who passed his general exam last weekend at the Mike & Key hamfest. 3 months from "no ham radio background" to General Class licensed! ***WOW! Way to go Eman!***

In closing, your feedback, ideas, and participation in this column will be much appreciated. See you all here next month.

-Steve, AF7YD

Camp Quest Northwest

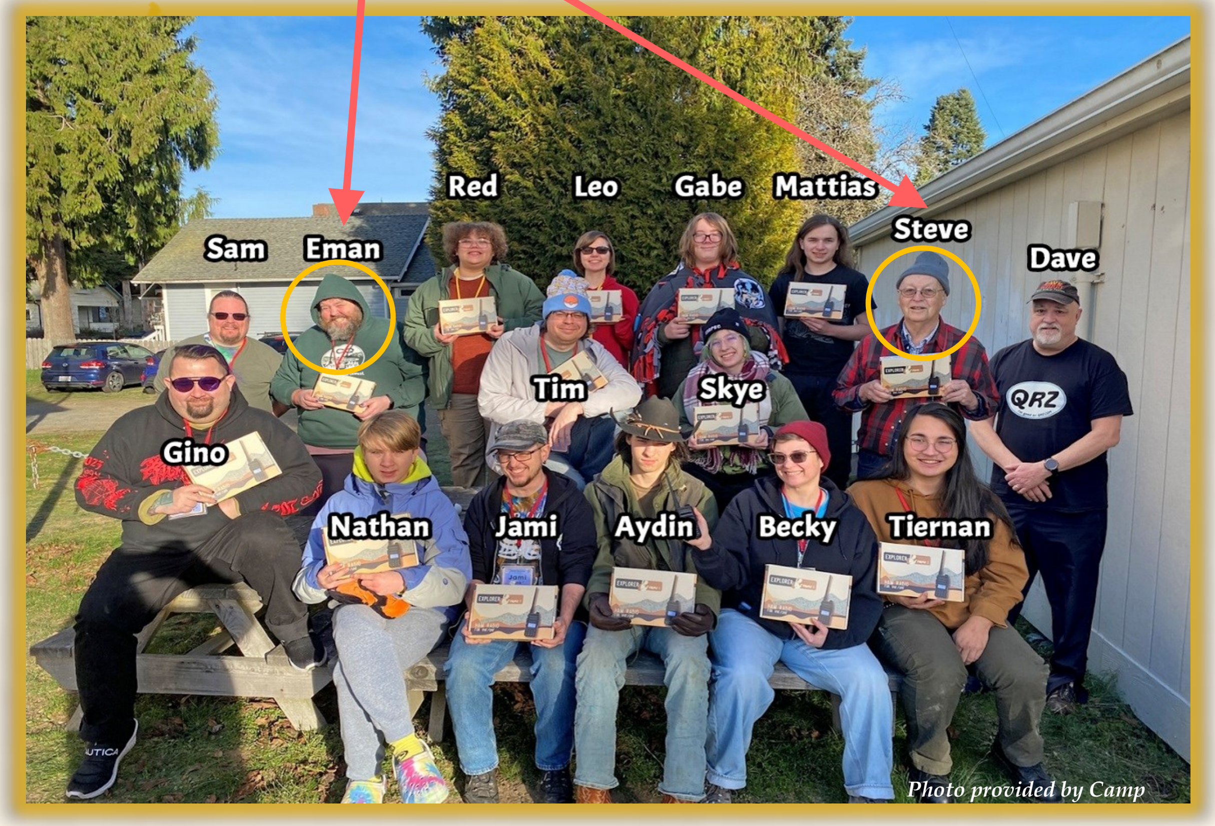

Red
Leo
Gabe
Mattias
Sam
Eman
Steve
Dave
Tim
Skye
Gino
Nathan
Jami
Aydin
Becky
Tiernan

Photo provided by Camp

Got a Youth radio story? Send it in!

EMERGENCY COMMUNICATIONS

Amateur Radio EmComm News & Topics

By Doug AB7DG

IN THE MARCH ISSUE of the Logger's Bark, beginning page 66, I shared an overview of the welfare-messages mission that the Club's EmComm team seeks to fulfill. This month, I'll present more detail about the initial steps that are involved. We hope to recruit and train club members throughout our county who will assist disaster survivors in their own neighborhoods, or nearby, to notify their distant loved ones of their condition.

We'll use the "I AM SAFE" system developed by Radio Relay International (RRI) and others, as described at its website: https://radiorelay.org/iamsafe/. From that website, members can download and maintain a supply of printed intake forms. *See figures 1 and 2*.

In a disaster, members (I'll here call them Welfare Message Collectors, or WMCs) can use the intake forms at shelters, churches, schools, or other locations at which survivors congregate to obtain message data from survivors wishing to notify distant loved ones.

Once the intake data is obtained, the WMC will use a Windows computer to enter that data in one of two templates of the Winlink app. That app is free at Winlink.org. And the two templates also are downloadable for off-line use from the RRI website. If a survivor's intake form shows their loved one's email address or a cell number along with a carrier (e.g., Verizon) then the template to use is the "RRI Quick Welfare Message." *See figure 3*. If the survivor's intake form shows no email address, but only a postal address or a phone number without a cell carrier, then the template to use is the "RRI Welfare Radiogram." *See figure 4*.

If the WMC happens to have a ham station with backup power and Winlink HF capability, the WMC can simply save the template to their Winlink app's outbox to transmit from their station to a Winlink gateway beyond the disaster area. If not, after entering each survivor's data in a template, the WMC should click the button at the template's lower left corner to save the data to a small text file. *See figure 5.*

By default, the template will label the text file with the survivor's name, date and time. (e.g., Quick Welfare Message Sally Survivor staged 2024-3-14 18_29.txt or Welfare Radiogram SALLY SURVIVOR staged 2024-03-14 18_41.txt)

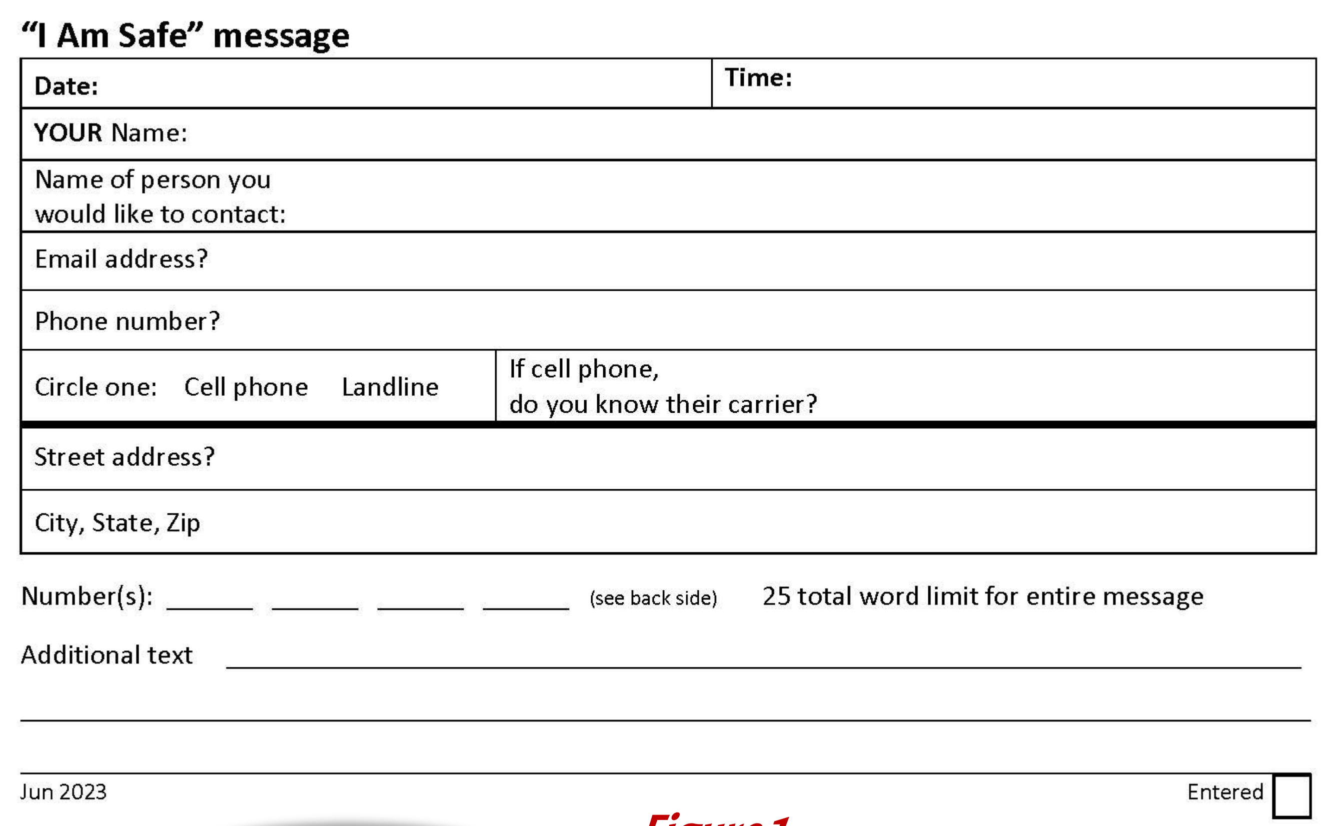
The text files must get delivered to a ham station with backup power and Winlink HF capability (and our EmComm team will identify and train willing club members with such stations). That delivery can be made by transporting a thumb drive containing those text files. Or the WMC may be able, with training, to transmit those text files to such an HF station using Winlink FM peer-to-peer mode.

Next month I will share information about the steps that the Winlink HF station operator will take to send each survivor's message data beyond the disaster areas to reach, hopefully, the survivor's intended loved ones.

Doug Schafer, AB7DG
RCT EmComm Committee chair
cell: 253-431-5156

Figures referenced continued on the following pages...

Got an EmComm story to tell? Send it in!



“I Am Safe” message

Date:	**Time:**
YOUR Name:	
Name of person you would like to contact:	
Email address?	
Phone number?	
Circle one: Cell phone Landline	If cell phone, do you know their carrier?
Street address?	
City, State, Zip	

Number(s): ______ ______ ______ ______ (see back side) 25 total word limit for entire message

Additional text ____

Jun 2023

Entered ☐

Figure 1

Front

EMERGENCY COMMUNICATIONS

Amateur Radio EmComm News & Topics

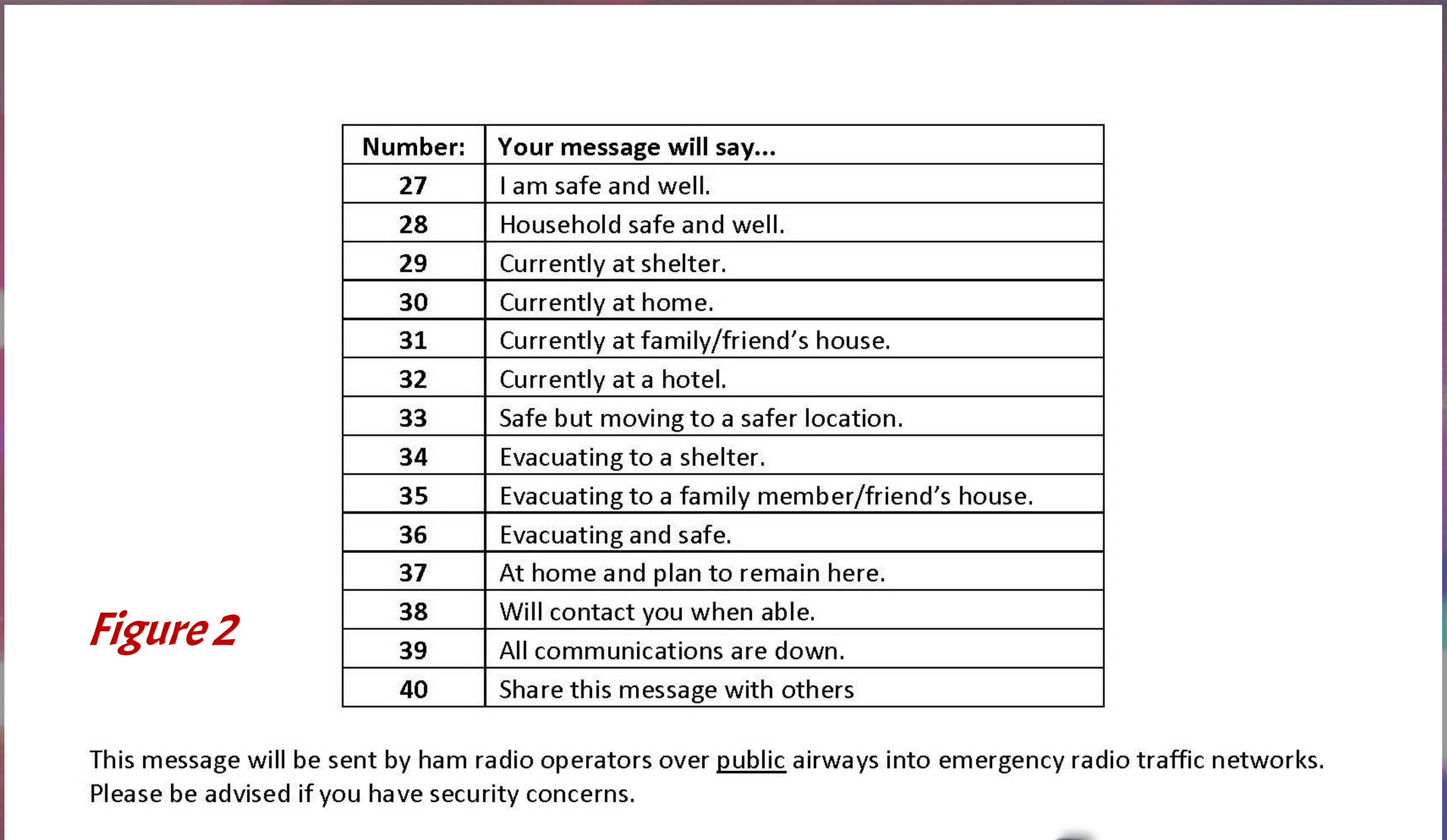


Figure 2

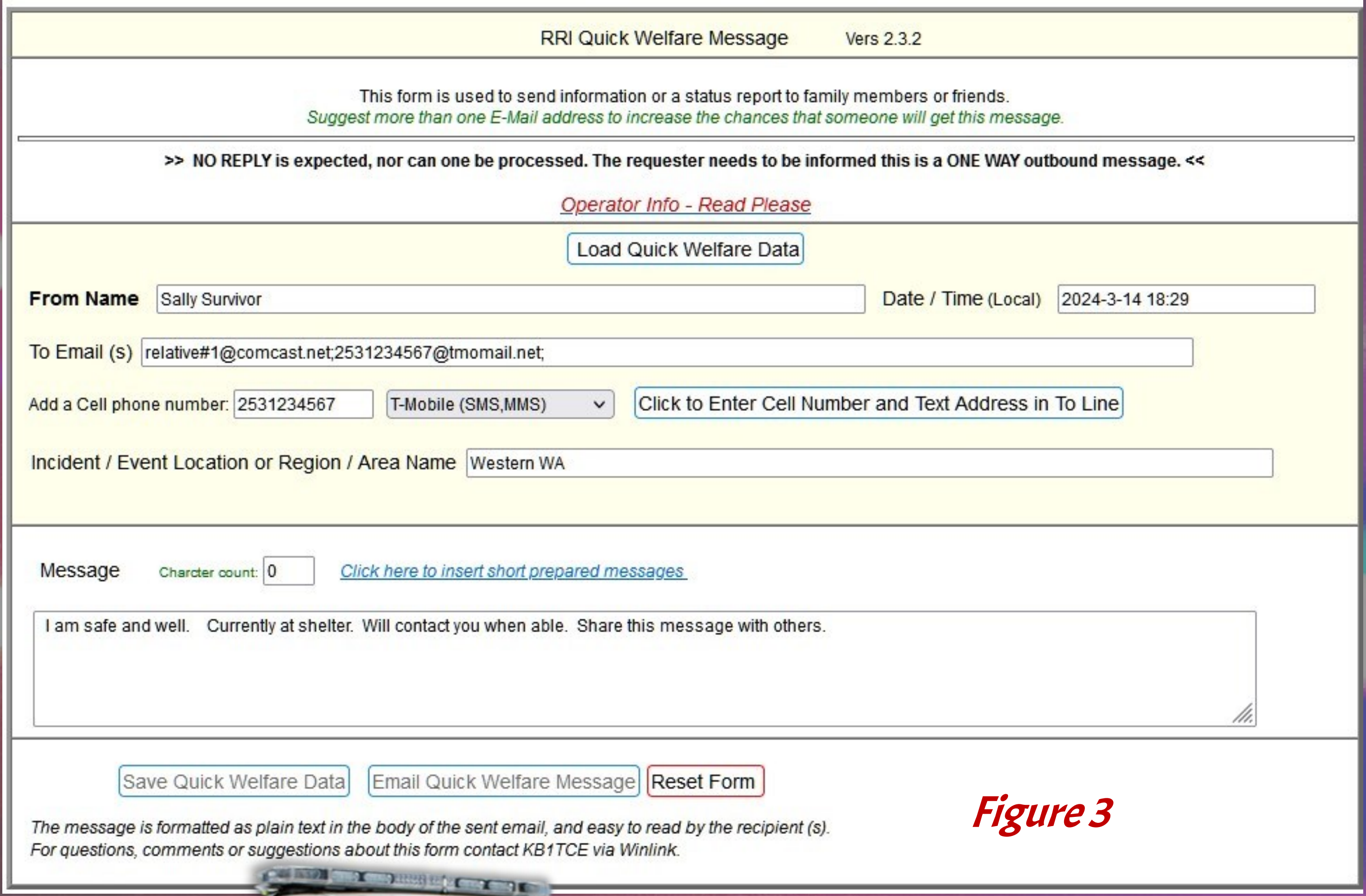
Number:	Your message will say...
27	I am safe and well.
28	Household safe and well.
29	Currently at shelter.
30	Currently at home.
31	Currently at family/friend's house.
32	Currently at a hotel.
33	Safe but moving to a safer location.
34	Evacuating to a shelter.
35	Evacuating to a family member/friend's house.
36	Evacuating and safe.
37	At home and plan to remain here.
38	Will contact you when able.
39	All communications are down.
40	Share this message with others

This message will be sent by ham radio operators over public airways into emergency radio traffic networks. Please be advised if you have security concerns.

Back

Got an EmComm story to tell? Send it in!

email loggersbark@gmail.com



RRI Quick Welfare Message Vers 2.3.2

This form is used to send information or a status report to family members or friends.

Suggest more than one E-Mail address to increase the chances that someone will get this message.

>> NO REPLY is expected, nor can one be processed. The requester needs to be informed this is a ONE WAY outbound message. <<

Operator Info - Read Please

Load Quick Welfare Data

From Name Sally Survivor

Date / Time (Local) 2024-3-14 18:29

To Email (s) relative#1@comcast.net;2531234567@tmomail.net;

Add a Cell phone number: 2531234567 T-Mobile (SMS,MMS)

Click to Enter Cell Number and Text Address in To Line

Incident / Event Location or Region / Area Name Western WA

Message Charcter count: 0 *Click here to insert short prepared messages*

I am safe and well. Currently at shelter. Will contact you when able. Share this message with others.

Save Quick Welfare Data
Email Quick Welfare Message
Reset Form

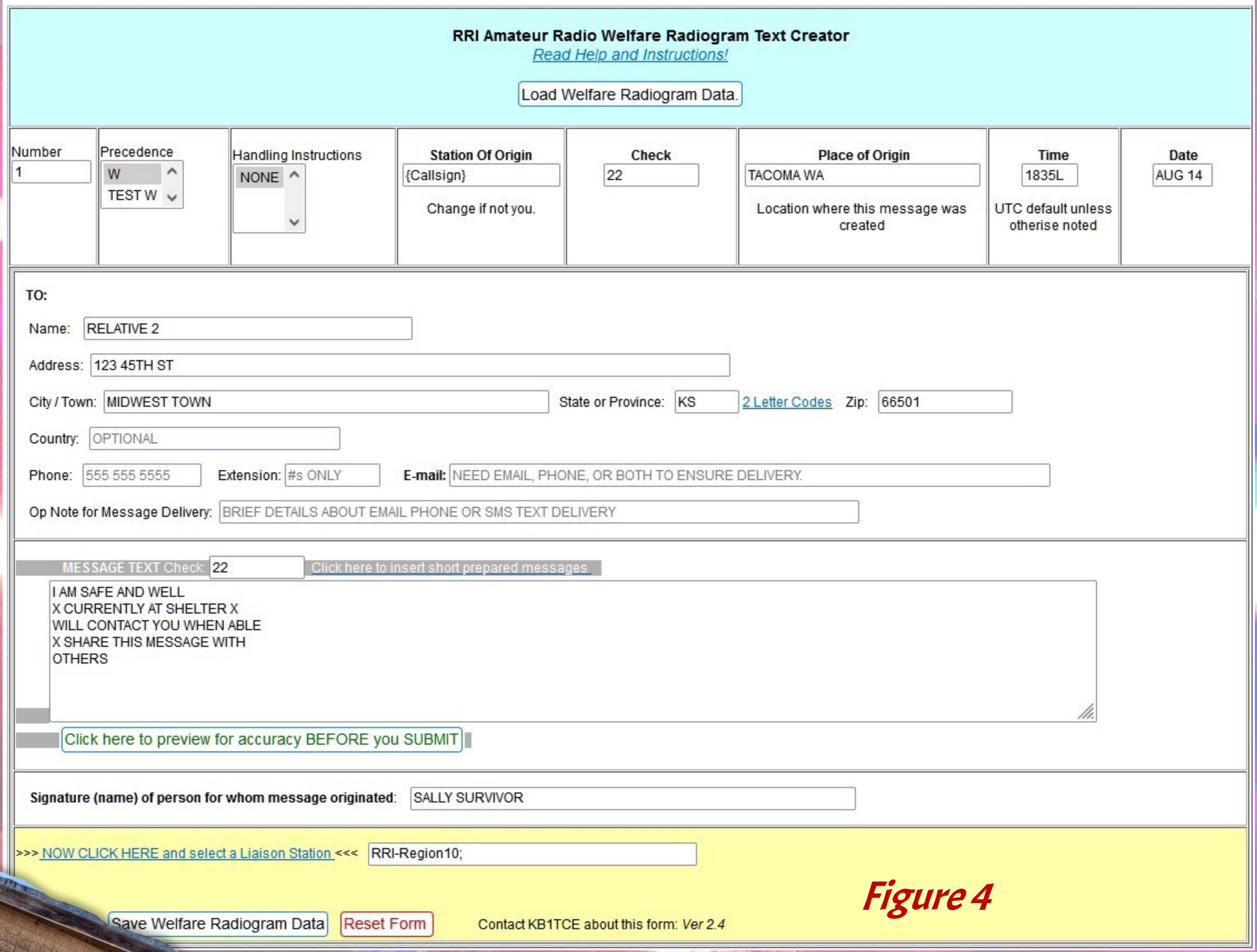
The message is formatted as plain text in the body of the sent email, and easy to read by the recipient (s).
For questions, comments or suggestions about this form contact KB1TCE via Winlink.

Figure 3

STATE PATROL

Got an EmComm story to tell? Send it in!

email loggersbark@gmail.com


Load Welfare Radiogram Data.
Click here to insert short prepared messages
Click here to preview for accuracy BEFORE you SUBMIT
Save Welfare Radiogram Data
Reset Form

RRI Amateur Radio Welfare Radiogram Text Creator

Read Help and Instructions!

Number	Precedence	Handling Instructions	Station Of Origin	Check	Place of Origin	Time	Date
1	W TEST W	NONE	{Callsign} Change if not you.	22	TACOMA WA Location where this message was created	1835L UTC default unless otherise noted	AUG 14

TO:

Name: RELATIVE 2

Address: 123 45TH ST

City / Town: MIDWEST TOWN State or Province: KS 2 Letter Codes Zip: 66501

Country: OPTIONAL

Phone: 555 555 5555 Extension: #s ONLY **E-mail:** NEED EMAIL, PHONE, OR BOTH TO ENSURE DELIVERY.

Op Note for Message Delivery: BRIEF DETAILS ABOUT EMAIL PHONE OR SMS TEXT DELIVERY

MESSAGE TEXT Check: 22

I AM SAFE AND WELL
X CURRENTLY AT SHELTER X
WILL CONTACT YOU WHEN ABLE
X SHARE THIS MESSAGE WITH
OTHERS

Signature (name) of person for whom message originated: SALLY SURVIVOR

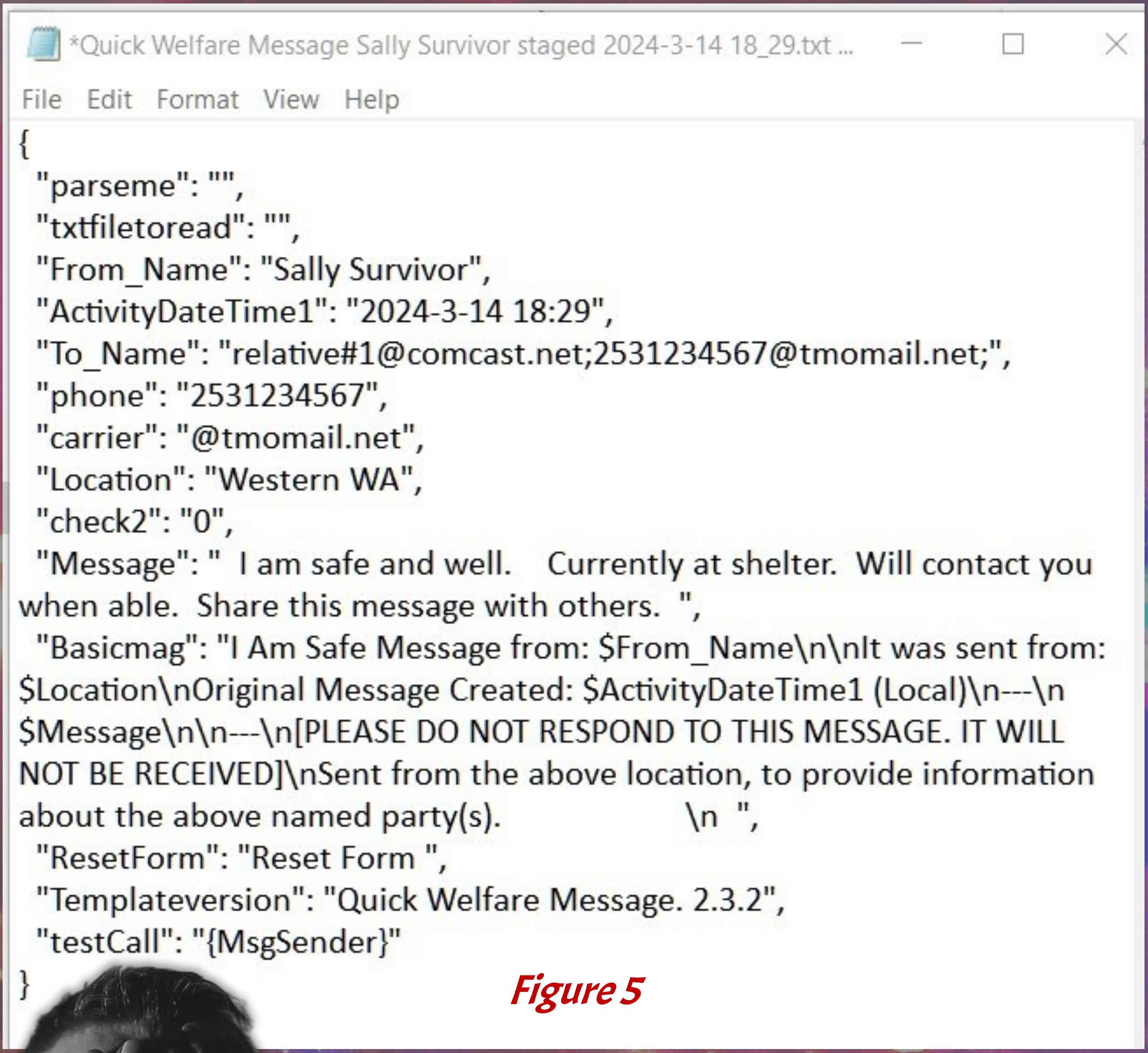
>>> NOW CLICK HERE and select a Liaison Station <<< RRI-Region10;

Contact KB1TCE about this form: *Ver 2.4*

Figure 4

Got an EmComm story to tell? Send it in!

email loggersbark@gmail.com


*Quick Welfare Message Sally Survivor staged 2024-3-14 18_29.txt ...
File Edit Format View Help

```
{
  "parseme": "",
  "txtfiletoread": "",
  "From_Name": "Sally Survivor",
  "ActivityDateTime1": "2024-3-14 18:29",
  "To_Name": "relative#1@comcast.net;2531234567@tmomail.net;",
  "phone": "2531234567",
  "carrier": "@tmomail.net",
  "Location": "Western WA",
  "check2": "0",
  "Message": "  I am safe and well.   Currently at shelter.  Will contact you
when able.  Share this message with others.  ",
  "Basicmag": "I Am Safe Message from: $From_Name\n\nIt was sent from:
$Location\nOriginal Message Created: $ActivityDateTime1 (Local)\n---\n
$Message\n\n---\n[PLEASE DO NOT RESPOND TO THIS MESSAGE. IT WILL
NOT BE RECEIVED]\nSent from the above location, to provide information
about the above named party(s).                \n  ",
  "ResetForm": "Reset Form ",
  "Templateversion": "Quick Welfare Message. 2.3.2",
  "testCall": "{MsgSender}"
}
```

Figure 5

STRAY TOPICS OF INTEREST

Fun stuff for Hams to read!

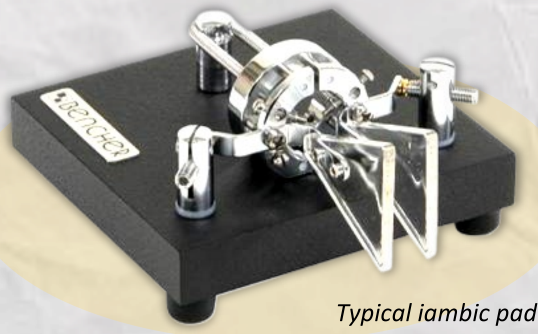
W7UUU

WHAT IS IAMBIC KEYING?

Most hams who have been around for even a short while have heard the words iambic keying or iambic keyer at one time or another. Many CW operators know the word well but may not know what it really means.

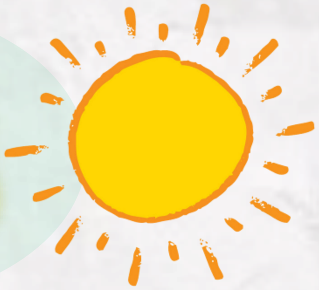
Iambic keying involves using a “squeeze paddle with iambic keyer” where one lever makes automated dits, the other makes automated dahs. At that level, it’s just like any keyer paddle. But a squeeze paddle paired with an iambic keyer will produce automatic full characters if you squeeze the two paddles at the same time. For example, squeezing both paddles at once, starting on the dah side, will produce the letter C. But if the squeeze starts using the dit paddle, the letter F is produced. A number of letters can be sent using variations of this procedure.

But this is definitely considered to be an advanced skill even for someone otherwise skilled at using a keyer, much less for a totally new CW op. There are two variations of iambic keying: type A and type B, but that’s a topic for another column. ■ *-editor*



Typical iambic paddle: Bencher BY-1

Cool Tool



Every ham needs one of these in the shack and it ties right in with an article in this very issue of the Bark, regarding GFCI outlets and the enormous safety advantage they can offer. That article is HERE. But what if your GFCI outlet isn’t actually working? It can’t save your life from electrocution if it’s failed.

This handy tester not only verifies if an outlet is wired correctly, it also gives you a reliable and easy method to test your GFCI outlets—simply plug the tester in and hit the “test” button. The device will then introduce a leakage resistance and test in real time the GFCI function is working as it should. *Everyone* should have one of these and use it!

Only $22.00 on Amazon

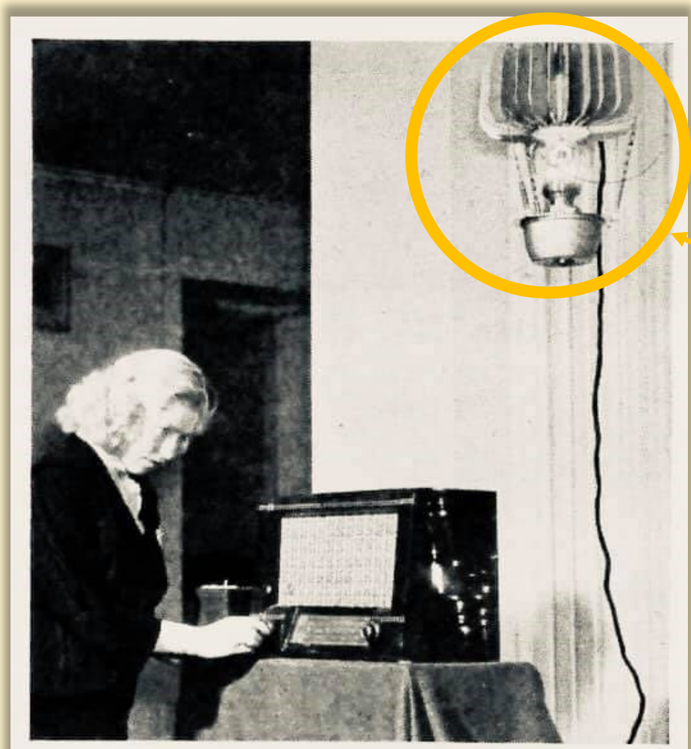
KLEIN TOOLS
RT250 GFCI OUTLET TESTER
120
VAC
CORRECT
GFCI
PUSH TO RESET
TEST
CORRECT
FAULT

Photo of my own tester being demonstrated. Click on the image to see it on Amazon
-Dave W7UUU

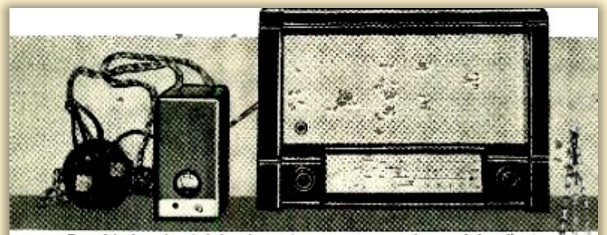
STRAY TOPICS OF INTEREST

Fun stuff for Hams to read!

W7UUU



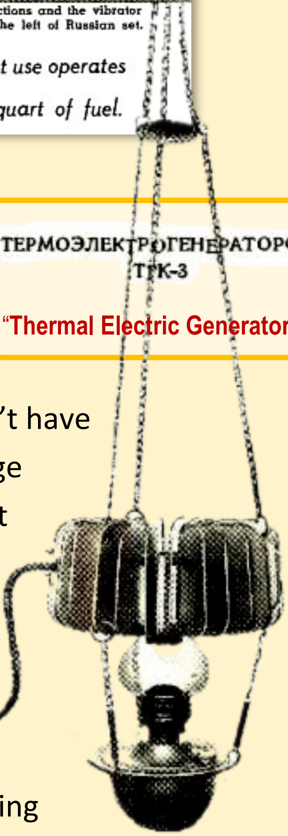
Kerosene Radio Made in Moscow for use in rural areas, this all-wave radio is reportedly powered by the kerosene lamp hanging above it. A group of thermocouples is heated internally to 570 degrees by the flame. Fins cool the outside to about 90 degrees. The temperature differential generates enough current to operate the low-drain receiver. Regular listeners may want fur-lined union suits, though: It works best in a room with open windows.



Round jack and switch box for various power connections and the vibrator power supply with built-in voltmeter are shown to the left of Russian set.

Subsidized set built for Middle East use operates for 8 to 16 hours on about one quart of fuel.

IN 1957 THE SOVIET UNION was at the peak of its game in leading the West: they had put Sputnik into earth orbit and launched a dog into space! So it was no surprise to American readers of Radio & TV News magazine in August of 1958 to see an article describing a kerosene powered radio! It was designed for export to the Middle East so that listeners could listen to Radio Moscow, but didn't have access to mains power or the large batteries needed to run a radio at the time, but they had kerosene in great abundance. The radio was 7 tubes, and covered 175 KHz to 12.3 MHz in four bands. To generate electricity, the user would light the gas lantern (hanging from the ceiling, which also provided light into the room). A thermocouple transduced heat into electricity to the run a "vibrator power supply" - an early version of "step up converter" to then provide the 90 volts needed by the radio. Of course, if A and B batteries were on hand, there was provision for battery operation as well. One quart of kerosene would run the radio for up to 16 hours ■ *-editor*



ТЕРМОЭЛЕКТРОГЕНЕРАТОРОМ ТГК-3

"Thermal Electric Generator"

STRAY TOPICS OF INTEREST

Fun stuff for Hams to read!

W7UUU

IN THE EARLY DAYS of amateur radio, crystal control was a very common thing. Variable Frequency Oscillators, or VFOs, were often expensive, and tricky to build your own. So many hams only used quartz crystals for frequency control of their transmitters (this was well before the Novice Class requirement to be crystal-bound that began in 1951 with that new class of ticket).

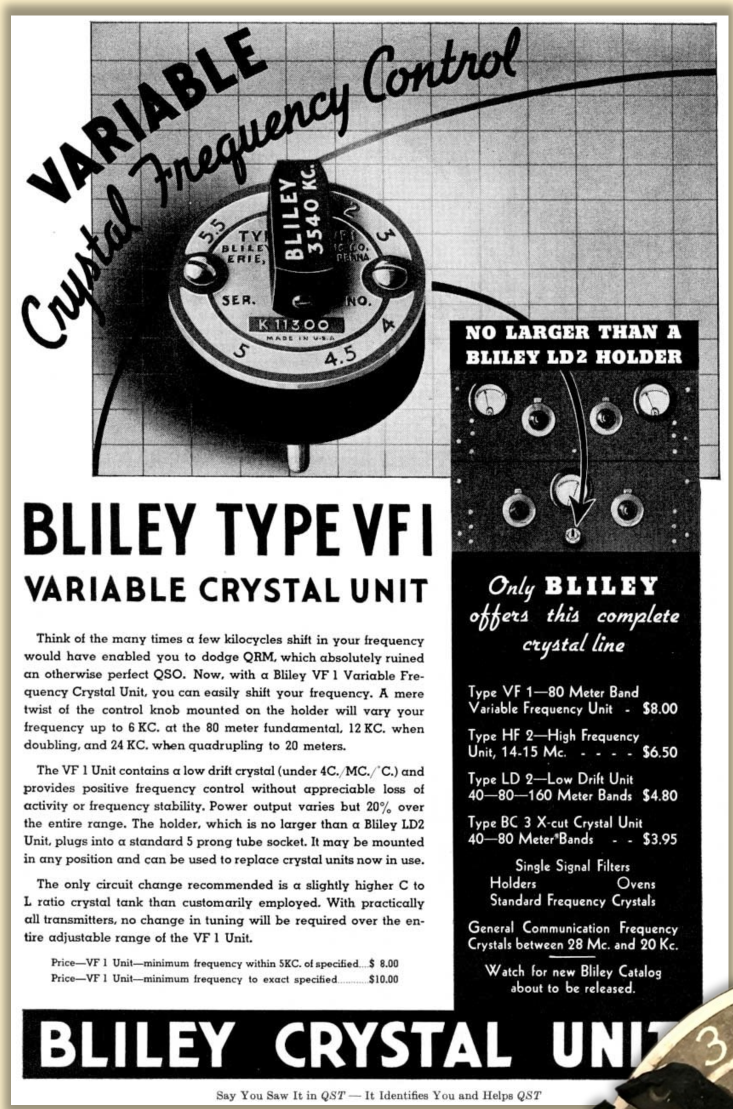
In 1939, one of the leading manufacturers of crystals, Bliley Corporation, developed the first "plug in" variable crystal unit.

From the manual, "The enclosed Bliley Crystal Unit incorporates a precision crystal manufactured from the finest grade of Brazilian quartz".

The Bliley variable crystal was designed to be plugged into the then-common 5-pin tube socket as the crystal socket for any number of homebrew transmitter projects. Of course, there is no modern counterpart to the 5-pin tube socket format, so the Bliley VF1 vanished from the market by the mid-1940s, when octal (8-pin) tubes became the norm and 5-pin sockets were no longer quite as popular.

So what was really inside of this unit? Metal plates increasing or decreasing pressure on the crystal to vary its resonant frequency up to 6 KHz (12 if doubled, 24 when quadrupled! Good luck with that!) $8 back in 1939, but that would be pretty spendy in today's dollars.

■ *-editor*
with thanks to Bob K7MXE


VARIABLE
Crystal Frequency Control
BLILEY 3540 KC.
TYPE VF1
BLILEY ERIE, PENNA
SER.
NO.
K 11300
MADE IN U.S.A.

NO LARGER THAN A BLILEY LD2 HOLDER

BLILEY TYPE VF1

VARIABLE CRYSTAL UNIT

Think of the many times a few kilocycles shift in your frequency would have enabled you to dodge QRM, which absolutely ruined an otherwise perfect QSO. Now, with a Bliley VF 1 Variable Frequency Crystal Unit, you can easily shift your frequency. A mere twist of the control knob mounted on the holder will vary your frequency up to 6 KC. at the 80 meter fundamental, 12 KC. when doubling, and 24 KC. when quadrupling to 20 meters.

The VF 1 Unit contains a low drift crystal (under 4C./MC./°C.) and provides positive frequency control without appreciable loss of activity or frequency stability. Power output varies but 20% over the entire range. The holder, which is no larger than a Bliley LD2 Unit, plugs into a standard 5 prong tube socket. It may be mounted in any position and can be used to replace crystal units now in use.

The only circuit change recommended is a slightly higher C to L ratio crystal tank than customarily employed. With practically all transmitters, no change in tuning will be required over the entire adjustable range of the VF 1 Unit.

Price—VF 1 Unit—minimum frequency within 5KC. of specified....$ 8.00
Price—VF 1 Unit—minimum frequency to exact specified..........$10.00

Only **BLILEY**
offers this complete crystal line

Type VF 1—80 Meter Band Variable Frequency Unit	$8.00
Type HF 2—High Frequency Unit, 14-15 Mc.	$6.50
Type LD 2—Low Drift Unit 40—80—160 Meter Bands	$4.80
Type BC 3 X-cut Crystal Unit 40—80 Meter Bands	$3.95

Single Signal Filters
Holders Ovens
Standard Frequency Crystals

General Communication Frequency Crystals between 28 Mc. and 20 Kc.

Watch for new Bliley Catalog about to be released.

BLILEY CRYSTAL UNITS

Say You Saw It in *QST* — It Identifies You and Helps *QST*

QST ad mage: ©ARRL Inc.

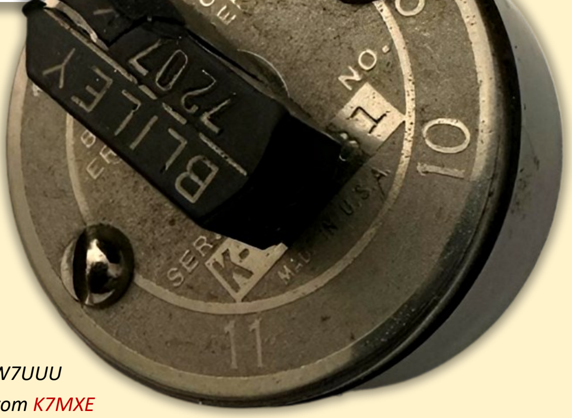


Photo: Dave W7UUU
Unit on loan from K7MXE

STRAY TOPICS OF INTEREST

Fun stuff for Hams to read!

W7UUU

Hidden Word Contest!

Somewhere in this edition of the Logger's Bark is a hidden word. If you are the first to find that word and report it to your Editor, you will win a free QRZ Sticker mailed to you! **This month's word is a BRAND OF CAR** It will be hiding in a sentence—just tell your editor via email what the word is and the page and you will win if you are the first!

D
Share
Watch on YouTube

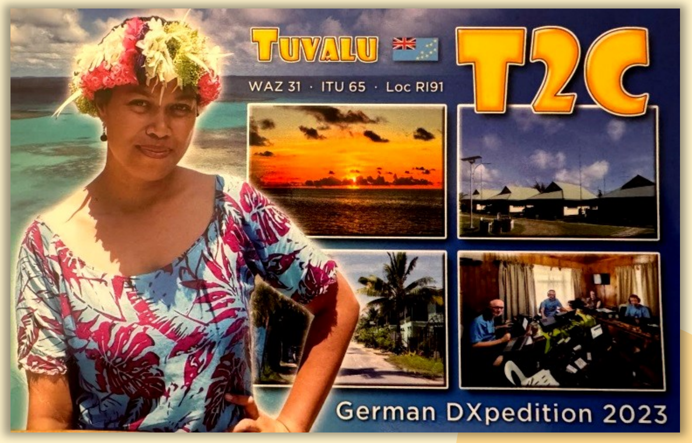
T2C DXPedition to Tuvalu, IOTA OC 015 - October 2023 -...

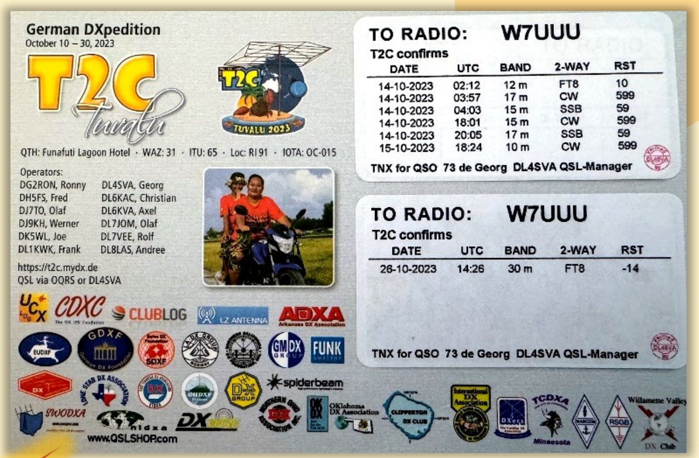
Click to watch a video of the Tuvalu DXpedition

GDXF
German DX Foundation

The German T2C DXpedition Team

QSL Card of the Month





German DXpedition
October 10 – 30, 2023
T2C
Tuvalu

QTH: Funafuti Lagoon Hotel · WAZ: 31 · ITU: 65 · Loc: RI91 · IOTA: OC-015

Operators:

DG2RON, Ronny	DL4SVA, Georg
DH5FS, Fred	DL6KAC, Christian
DJ7TO, Olaf	DL6KVA, Axel
DJ9KH, Werner	DL7JOM, Olaf
DK5WL, Joe	DL7VEE, Rolf
DL1KWK, Frank	DL8LAS, Andree

https://t2c.mydx.de
QSL via OQRS or DL4SVA

TO RADIO: W7UUU

T2C confirms

DATE	UTC	BAND	2-WAY	RST
14-10-2023	02:12	12 m	FT8	10
14-10-2023	03:57	17 m	CW	599
14-10-2023	04:03	15 m	SSB	59
14-10-2023	18:01	15 m	CW	599
14-10-2023	20:05	17 m	SSB	59
15-10-2023	18:24	10 m	CW	599

TNX for QSO 73 de Georg DL4SVA QSL-Manager

TO RADIO: W7UUU

T2C confirms

DATE	UTC	BAND	2-WAY	RST
26-10-2023	14:26	30 m	FT8	-14

TNX for QSO 73 de Georg DL4SVA QSL-Manager

www.QSLSHOP.com

Another recent QSL of W7UUU, T2C from the big German DXpedition to the island of Tuvalu last October. Got 'em on several bands and modes.

But hey folks—if YOU don't submit cards, this blurb will get really dull if it's just W7UUU cards. They DON'T HAVE to be exotic—just start sending in ones you want to share. Just take good clean RECTANGLE photos (not at funky angles that won't publish well). You can do it! Send 'em in!

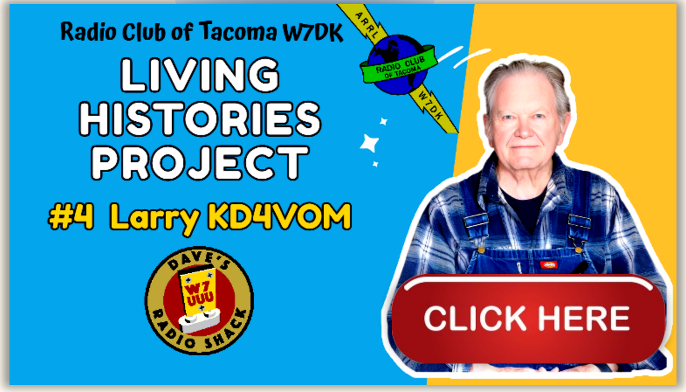
Do YOU have an interesting QSL? Send it in!

W7DK LIVING HISTORIES

Member video interviews and profiles

BACK IN 2015, when I was helping to organize the W7DK Centennial Banquet and Celebration, I asked about possibly recording video interviews of club members for future generations to learn more about those that came before them. However, that plan like so many things in life, sort of slipped by the wayside and I truly regret not revisiting such a project much sooner.

W7DK Living Histories Project #4



Click picture to watch the video

The fairly recent loss of our most senior member, Worth Gurley, W7WG, a true friend to all who knew him and to strangers alike, reminded me of the extreme importance of capturing aspects of our members lives and involvements not in only ham radio, but also with the Radio Club of Tacoma. So I've finally got that "round TUIT" that I should have found sooner and have embarked on recording what I am calling the W7DK Living Histories Project. For this effort I video a short (15-20 minute) interview with our members in a free-form format to allow them to share some insights into how they came to amateur radio, and how they became involved with the Radio Club of Tacoma.

So far I have produced a small number of these videos but it's an ongoing process, and I hope to continue until all members who wish to participate have had a chance to do so.

One of the challenges of any such project is where to store the data that is the encoding result of all the video that is produced and edited. If stored on a local computer such as at home it is subject to the failures we all know can happen: fire, electronic failure, physical loss (where did I put that hard drive?) or other calamities. Storing at the clubhouse doesn't fare any better in the long run.

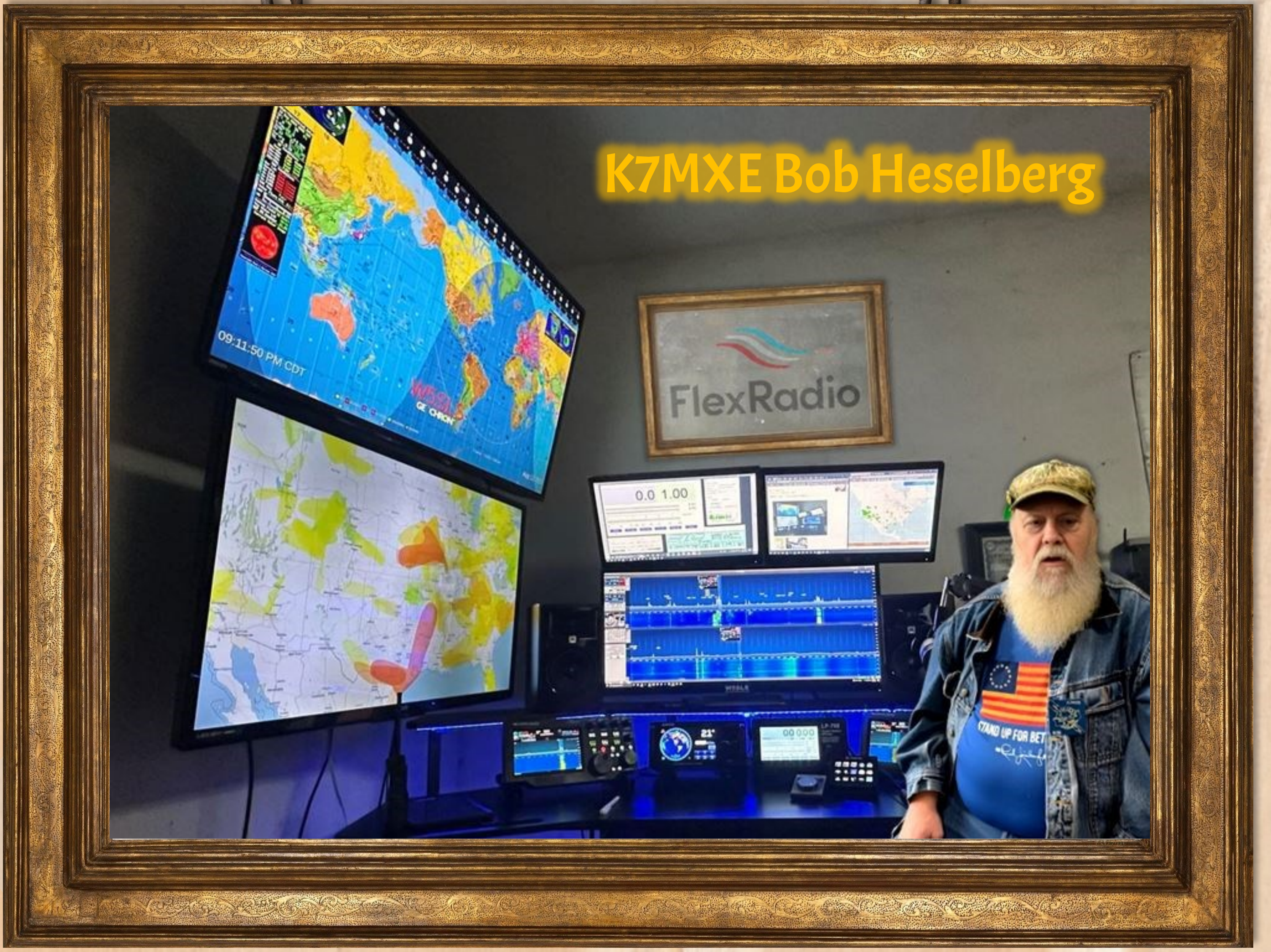
So the videos are being uploaded to YouTube, where they have a strong chance of remaining there for a great many years to come. Several are already uploaded, with several more in editing and more on top of that slated to shoot. Oldsmobile.

I hope to record such histories of ALL members who wish to tell their stores—please contact me if you would like to participate.

Please enjoy this series of videos, with a new link every month. Click the image to watch video ■

Ham Shack of the Month

W9EVT (SK)
New!



K7MXE Bob Heselberg

This month's "Ham Shack of the Month" features Bob Heselberg, K7MXE, of Eatonville, WA, in the shadow of Mt. Rainier. This is his current shack, where he exemplifies the *modern* amateur radio operator. His primary rigs are a Flex 6600 paired with a 6400M, and he has a Power Genius XL Amplifier, as well as a Palstar amp and tuner at his disposal. Bob is *especially* into FT8. "CW is an antiquated mode we once had to learn but phooey on that! FT is where it's at now. It's all I do. In fact, I heard that CW isn't even legal to use anymore". Thanks for the submission –*editor*

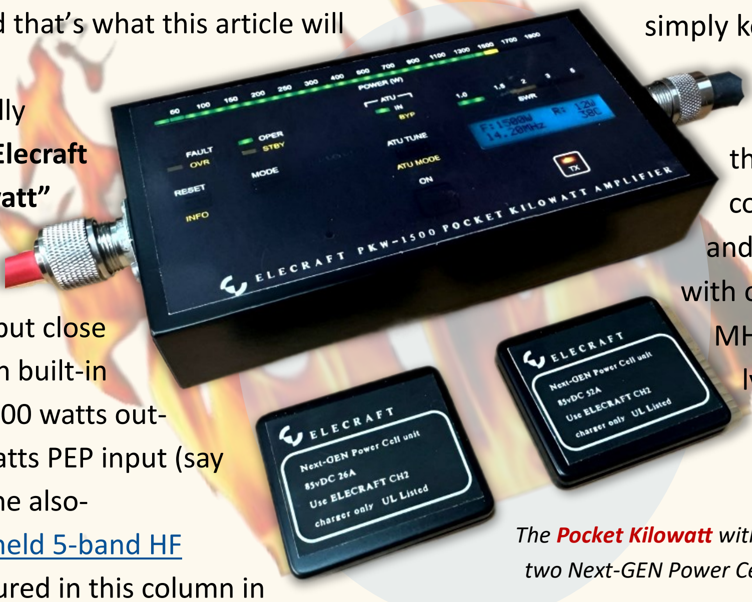
TNT THE NEW HOT THING

Hot and new products to think about

W7UUU

THIS MONTH'S NEW HOT THING will likely astound most readers as it surely does me! I have a good friend who works at the Elecraft factory and offices in Watsonville, California. He's on the engineering team and recently sent me a new product to play with for a day or two, and that's what this article will be about.

So what is it? It's the really amazing super-compact **Elecraft PKW-1500 "Pocket Kilowatt"** amplifier. Yes, you read that correctly—a *pocket size* (well, slightly bigger but close enough) HF amplifier with built-in tuner capable of up to 1500 watts output from as little as 10 watts PEP input (say from an Icom IC-705 or the also-revolutionary KH1 hand-held 5-band HF transceiver that was featured in this column in January).



The ***Pocket Kilowatt*** *with its two Next-GEN Power Cells*

What's even more amazing and revolutionary is the newly-developed power cells to drive it, which Elecraft calls the Next-GEN Power Cell Unit. There are two of them, one rated 26 amps continuous at 85vDC, and the other double that at 52 amps continuous at 85vDC. Now—I have to add the caveat that "continuous" is a tad generous in their terminology. For the short time I had the PKW in hand, I was able to get about 14 minutes out of the 26 amp cell and just about double that on the 52 amp version at 26 minutes. But I've been told the plan is to add an expansion adapter to "piggyback" Next-GEN Power Cell Units for extended operation.

In actual use, the PKW works very much like my own Elecraft KPA-1500 full-size amp in my current shack. It's extremely easy to use in practice. It is ONLY "RF sensing" however—there's no option at this time for CAT control of band changing. You simply key the transmitter (20w maximum input) and the amplifier will auto-detect the band. Needless to say it covers all HF bands 160 to 6 and of course, if triggered with out-of-band RF such as 27 MHz, the amplifier will simply refuse to activate.

The panel layout is roughly the same as the KPA-1500 (see comparison photo next page) but there is no second antenna port. Otherwise it's basically the same control panel as on the KPA-1500 including display (in a different panel location).

The auto-tuner however is NOT as capable as the tuner built into the KPA-1500. In actual field use during a POTA activation, I found that any SWR mismatch over 3:1 was not gonna happen. That puts it in the same lackluster-but-usable league as the tuner in an IC-7300 but I suspect the reason is simply real estate inside the tiny (as amps go) cabinet of the PKW.

The built-in digital SWR/wattmeter was spot-on when compared to my inline test meter during

Click to visit the Manufacturer's Site

TNT THE NEW HOT THING

Hot and new products to think about

W7UUU

bench tests.

A couple of times in operation, it went into “fault” mode and dropped off-line for no visible reason. But a simple push of “RESET” set it back to right.

As mentioned, battery life was “just OK” and quite a bit less than preliminary spec sheets are saying (Elecraft quotes 20 minutes on the 26A cell and 35 on the 52A but as noted, it’s quite a bit less than that).

ELECRAFT
Next-GEN Power Cell unit
85vDC 52A
Use ELECRAFT CH2
charger only UL Listed

The larger of the tow Power Cells, 85vDC at 52A
There is also a 26A version—see text

Weight is not a huge issue. It has some heft to it no question—it feels like holding a keyer paddle on a big base… that sort of thing. I didn’t weigh it and it’s not in the preliminary spec sheet but probably around 3 or 4 pounds so not a deal-breaker for POTA outings when packed in your backpack.

On one hand I’m utterly amazed at these Next-GEN power cells. They utilize the cutting-edge “Metal hydrogen battery” technology, also known as “nickel-hydrogen”, and are highly pressurized internally to 1200 psi, and are capable of over 20,000 recharge cycles. This battery technology is considered to be “Grid Scale Energy Storage” and while not totally new, is only now entering the realm of amateur radio. Similar batteries are in use on the ISS, Mars Odyssey, and the Mars Global Surveyor. But on the other hand, they are stupid-expensive at just shy of $500 per cell (52A version, slightly less for 26A). You would need to have at least two of them in your kit just for a normal POTA outing. Add to that there is currently no option for external AC mains power… the PKW is ONLY available at this time in a *battery-powered version*. Elecraft plans to offer an AC-mains powered unit but not likely until late 2024.

Fortunately, the amp does come with a 2-slot drop-in charger that can charge either flavor of cell.

No official price has been announced but my good friend at Elecraft says it will not be cheap—very likely in the $2000 price range, including one 52A Next-GEN power cell unit and a dual-slot charger. He says to expect a full product page soon at the Elecraft web site.

Big thanks to my friend, Greg, for letting me have some fun with this amazing little amp. Alas, it won’t be a part of my POTA kit any time soon. It’s not just the price point, it’s all the other stuff: my antenna and feedlines aren’t rated for 1500 watts, nor do I really want to have the risk of that power level with a small portable antenna in a public space.

But surely for some, this will be a true impulse buy. Great little piece of tech. ■ *-editor*

DSCLAIMER: PLEASE do not contact Elecraft about this “product” - it’s an April Fool’s joke!! -Dave W7UUU

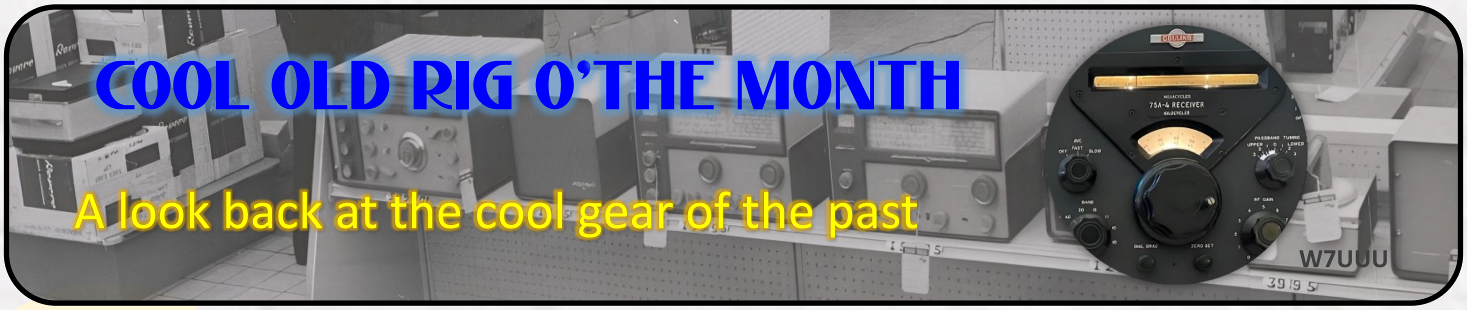
TNT THE NEW HOT THING

Hot and new products to think about

Elecraft PKW-1500 POCKET KILOWATT Amplifier!!!
CLICK HERE
Elecraft POCKET KILOWATT
AMPLIFIER!!
SEE IT DEMONSTRATED!
QRZ

SEE IT WORK!

The POCKET KILOWATT AMPLIFIER!
DAVE'S W7UUU RADIO SHACK
ELECRAFT PKW-1500 POCKET KILOWATT AMPLIFIER
QRZ
CLICK HERE


75A-4 RECEIVER
W7UUU

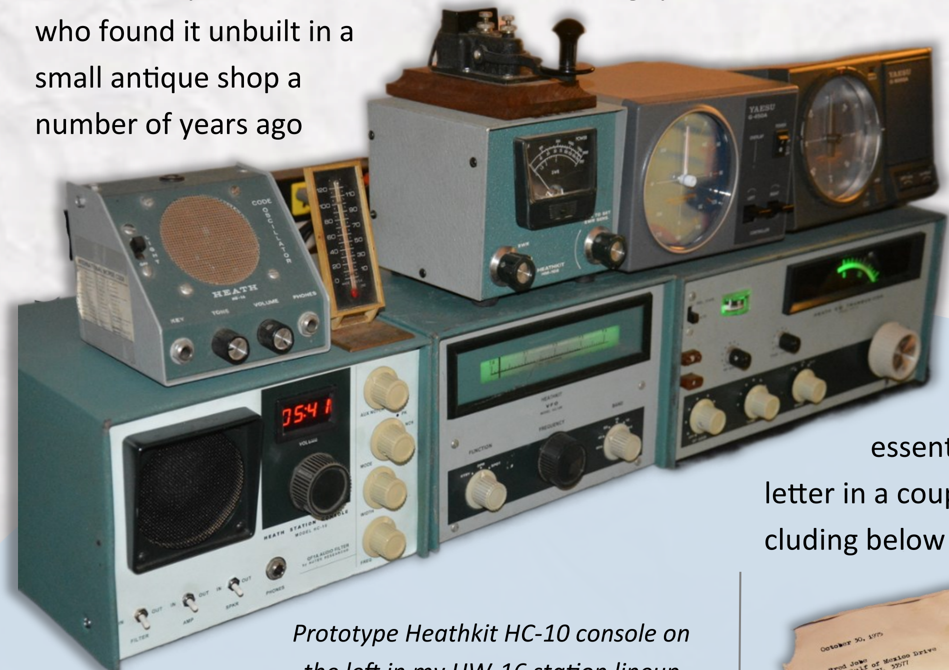
COOL OLD RIG O'THE MONTH

A look back at the cool gear of the past

THIS MONTH'S COOL OLD RIG of the Month is probably the rarest of all Heathkit products in existence. In fact it's so rare that it's not even mentioned in Chuck Penson's book or any other source of Heathkit information I've found. And yet it exists!

What is it? It's the *prototype* matching station console for the extremely popular Heathkit HW-16 Novice Transceiver and the matching HG-10 VFO.

There is only one known to exist, and I'm the guy who found it unbuilt in a small antique shop a number of years ago

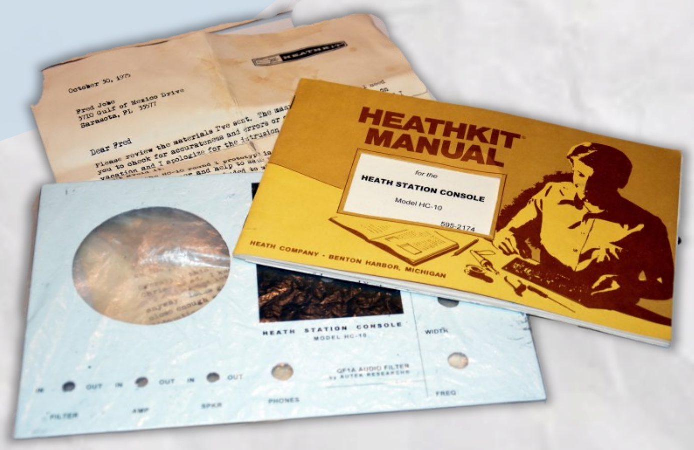

HEATH
CODE OSCILLATOR
YAESU
15:41
HEATH STATION CONSOLE MODEL HC-10
QF1A AUDIO FILTER

Prototype Heathkit HC-10 console on the left in my HW-16 station lineup

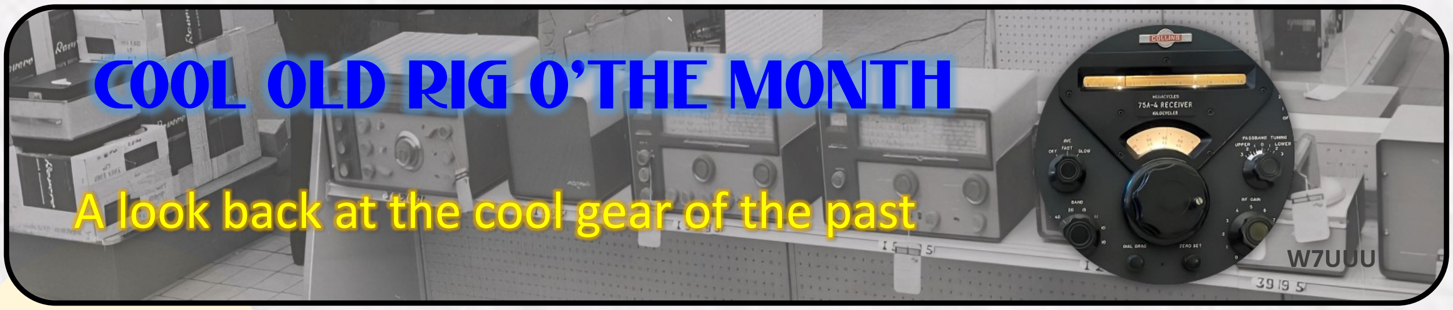
priced at $20 for "box of old parts". The moment I looked inside at the store, I knew this was not just any old box of parts, it was an unbuilt Heathkit product of some sort. I carefully poked around looking at the bits inside, and was really puzzled when I saw the front panel of something I'd never heard of—Heathkit Model HC-10 Station Console. Not wanting to alert the clerk to the fact this could be an extremely valuable item, I simply paid the money and left the store to see what I had stumbled on.

Once home, the full realization hit me when I read the letter that was included in the package. It explained this was in fact a *prototype* station console for the HW-16. It was designed in the waning days of the Novice rig's production, as an attempt to revitalize sales. It was being rushed to market for the 1975 Christmas catalog, and the kit had been sent from Benton Harbor to Fred Jobe, one of the head engineers and "Hams at Heath" to build while vacationing in Florida with his family.

For brevity, the text of the letter is not presented here but that's the essentials of the message. You can see the letter in a couple of the photos in this article, including below with the manual.


October 30, 1975
Fred Jobe
3710 Gulf of Mexico Drive
Sarasota, FL 33577
Dear Fred
HEATHKIT
HEATHKIT MANUAL
for the
HEATH STATION CONSOLE
Model HC-10
595-2174
HEATH COMPANY · BENTON HARBOR, MICHIGAN
HEATH STATION CONSOLE
MODEL HC-10
QF1A AUDIO FILTER
WIDTH
FREQ
FILTER
AMP
SPKR
PHONES

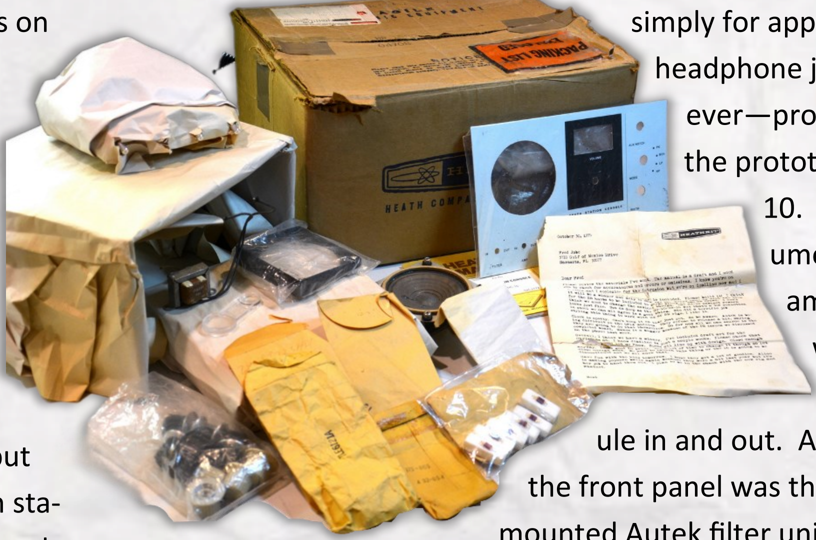
Letter mentioned in text, the aluminum faceplate, and the assembly manual



COOL OLD RIG O'THE MONTH

A look back at the cool gear of the past

Needless to say, I was immediately torn between wanting to *build it* (my first inclination) or to *sell it* for a bazillion dollars on eBay. As most hams know, unbuilt Heathkits fetch high prices, and unbuilt Heathkit prototype kits are so rare that no price can even be estimated.



Complete kit on my bench

But in the end I decided to build it, and put it on the air in my own station. It seems Mr. Jobe, the recipient (the kit was still packed in a box with the shipping label to his home in Florida still intact), never got around to building it. The program was canceled before it ever started.

Once I dove in, it was a delightful experience, and I was in awe of the engineering that Heath was scrambling to put together to try to save the old HW-16 from an early demise with a new accessory.

Features of the console are simple: the most active component is an early version of the Autek QF1A audio HF filter for CW selectivity (one of the best such devices ever made). According to the Jobe letter, Autek refused to sell it as a kit so that comes as a complete module to be installed onto the front panel, greatly simplifying construction of the kit!

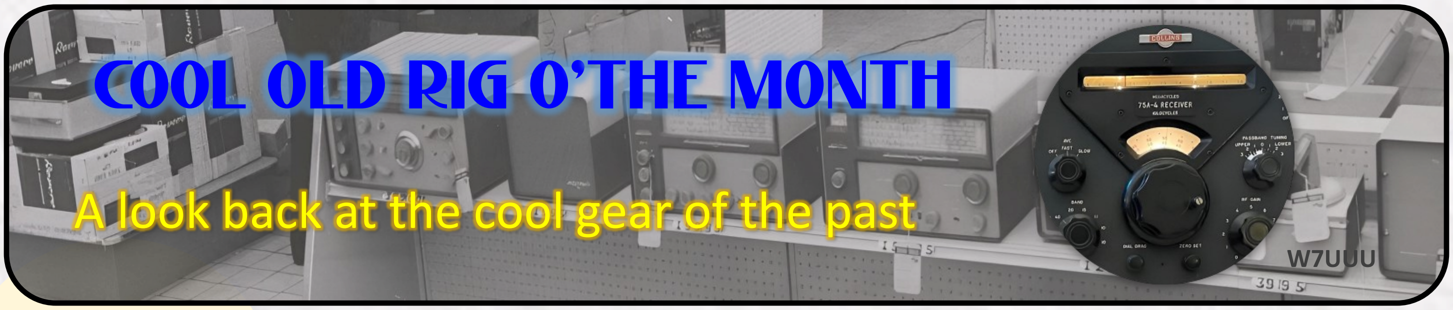
Following the QF1A module is a small transistorized AF "makeup gain" amplifier that drives a small speaker on the front of the console, housed in the same small escutcheon as used on the various stations scopes of the time (SB-610, SB-620) simply for appearance reasons. No headphone jack was provided however—probably an oversight in the prototype version of the HC-10. A large dark green volume control adjusted the amplifier gain. There were switches to switch the QF1A module in and out. And on the right side of the front panel was the oddly-vertically mounted Autek filter unit, complete with the slightly-offset mode knob to select "Peak, Notch, Lowpass, and HP" functions. Of course, it was the same module for their production run QF1A which had not yet started shipping… hence the reason not to kit it. Autek was on the verge of release of this revolutionary unit and couldn't divert the resources.

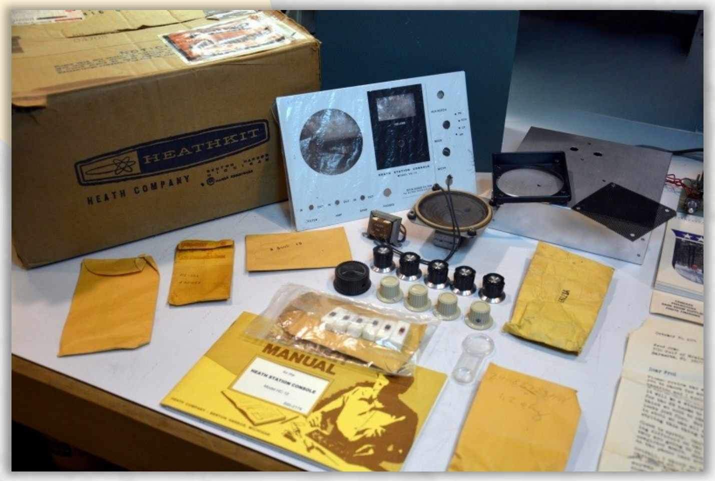
Lastly was the somewhat-dismal digital clock and the choice of panel knobs. The clock was based on an early clock chip (same one sold by Radio Shack) that worked OK but was based on the 60hz power line frequency and prone to wander.

Knobs were included to match the HW-16, but they also were going to toss in "SB series" knobs in a weak attempt to draw in the crowd for the much more modern and advanced SB series of rigs. This is the only time Heath ever offered knobs and allowed the user to choose which series it matched!

COOL OLD RIG O'THE MONTH

A look back at the cool gear of the past





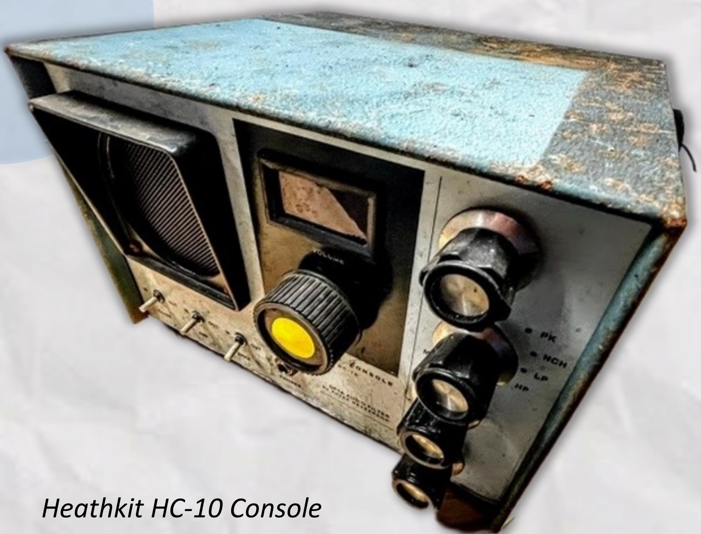
Assembly of the kit was straight forward. The manual was very simple, and the instructions very clear in typical Heathkit style. Of course, I did replace the small handful of electrolytic and carbon resistors due to their age. I chose the HW-series knobs for the final assembly (see the first photo) and just stashed the SB knobs (dark green with silver rings). I doubt Heathkit would have continued that as a stock option—it was likely for Mr. Jobe to decide.

HEATHKIT MANUAL

The moment I opened the box in the antiques shop. Photo by Anne N7ANN

Operation once complete was very simple with no issues, and it performed very well with my HW-16 as I accomplished a "Nostalgic Worked All States", even confirming all 50 with paper QSL cards. The QF1A module made such a difference in pulling out the weak stations in that effort, that in fact I not only worked all states but amassed nearly a complete DXCC of DX stations. This was during our last sunspot cycle peak, and conditions were great!

Alas, my October 2020 shack fire was unforgiving and among a great many wonderful items destroyed, the HC-10 prototype (along with the original box, and the Jobe letter) were also destroyed. The HC-10 suffered very serious damage… it was deemed a total loss by the insurance company, and I couldn't bring myself to toss it in the dumpster with so many other relics of my past—so I kept it. Maybe one day I will make an effort to restore it, as the sole Heathkit prototype—one of only a handful that exist today of any type. ■ *-editor*



Heathkit HC-10 Console prototype as it is today

HOMEBREW & KITS CORNER

Radio homebrew projects both large & small

7MHz
22k
22uH
1n
10-16p
BD139
100n

THIS MONTH I'M FEATURING a complete suite of little radio kits that I stumbled on in a fit of being impulsive. It's called the "Easy Series" from QRPKITS.com and includes a very basic Easy Transmitter, Easy Receiver, Easy TR Switch, Simple Keyer, and Easy Audio Band Pass Filter.

Absolute simplicity… these are not any competition to Hans and his QRP Labs products—not by a long shot! But as I've said, it was an impulsive buy and I thought it might be a fun "Homebrew & Kits Corner" project over time, and document the building and operation of each piece in what will (hopefully) be a complete T/R setup.

Easy Transmitter
7.030
Manual at
WWW.QRPKITS.COM

I will be starting with the Easy Transmitter. I have the version that comes with the 7.030 crystal but of course, it could be used with any small QRP-style crystal. The design offers a VXO (variable crystal oscillator) range of about 1 KHz on 40-meters, so a little bit of "wiggle room".

Pacific Antenna
Easy Receiver
Manual at
WWW.QRPKITS.COM

Power output on 40m is a whopping 2 watts but with a good antenna (which I have), patience, skill, and good conditions, that can work the world. The matching receiver is of course called the "Easy Receiver". It uses the very-common variant of the NE602 mixer, with a front-end bandpass filter. It's a direct-conversion design and uses another very common amp chip, the LM386 for the audio. The receiver of course is on the same band as the Easy Transmitter, 40 meters. But unlike the transmitter covers a much broader range: 75 KHz.

Pacific Antenna
Easy TR Switch
V 3
Manual at
WWW.QRPKITS.COM

The rest of the kits cover a matching T/R switch to allow the Easy Transmitter to work with the Easy Receiver, a CW keyer kit (that's actually quite capable!), and an audio filter to help improve the selectivity of the receiver.

Pacific Antenna
Simple Keyer
Manual at
WWW.QRPKITS.COM

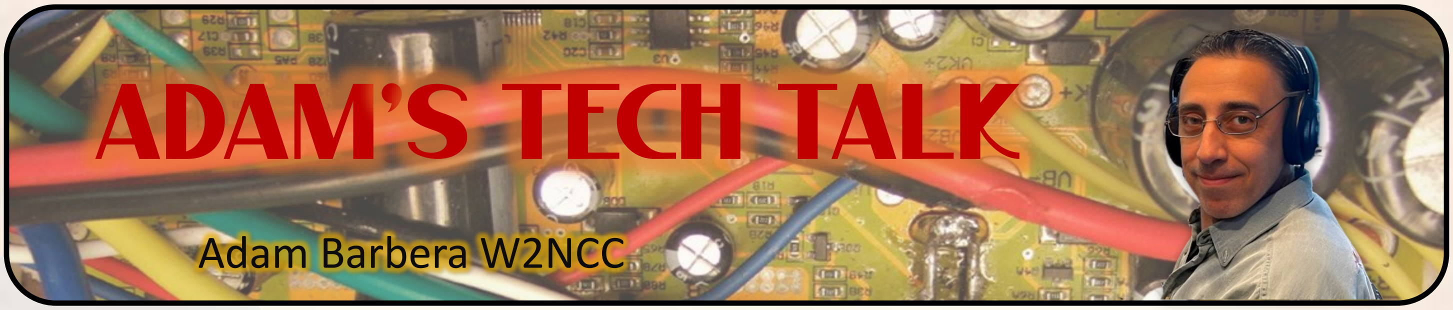
My plan is to start with the transmitter and get it going, using my Collins 75A-4 receiver for testing with some local hams. I will then build up the receiver, again using a local ham friend or two for initial testing. If all goes as planned, I will then tackle the T/R switch and then the audio filter to improve the receiver, and lastly build up the keyer.

Pacific Antenna
Audio Band Pass Filter
Manual at
WWW.QRPKITS.COM

For a final fit and finish I hope to mount all the related boards in a nice home-brew cabinet of some sort (probably wooden, so I can build it in my woodshop).

No, it won't ever perform beyond super basic but should be a fun project to take on and document. Be watching for the Easy Transmitter & Receiver projects to appear in upcoming editions of the Bark, as time permits for me on the "building side" of things.

Until then, 73 –Dave W7UUU



ADAM'S TECH TALK

Adam Barbera W2NCC

HF TRANSCEIVER Radio Frequency Interference

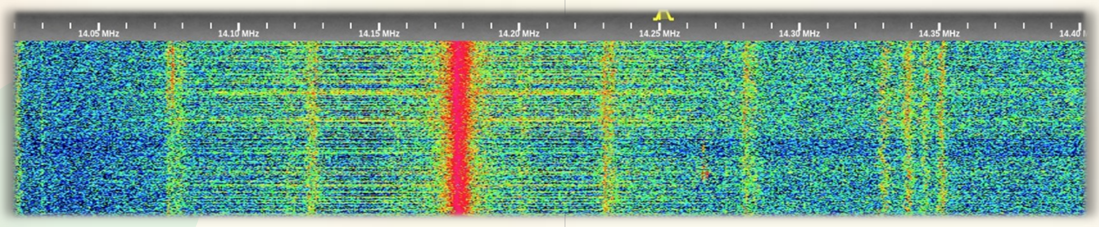
Radio Frequency Interference (RFI) is like that pesky static on your favorite radio station—it messes up the signal and makes communication fuzzy. But what exactly is it, and why does it matter? Let's dive into the world of HF transceivers and RFI, and discover how to keep those airwaves clear.

WHAT IS RFI?

Imagine you're chatting with a friend on your walkie-talkie, and suddenly, you hear weird noises—buzzing, crackling, or even complete silence. That's RFI! It stands for Radio Frequency Interference, and it's like an unwanted guest crashing your radio party.

WHY HF TRANSCEIVERS GET GRUMPY

HF transceivers are like the cool kids on the radio block—they use high-frequency radio waves to talk to each other. But sometimes, they get annoyed by RFI. **Here's why:** Neighborhood Bullies! Nearby electronic devices, power lines, EVs (electric vehicles) and motors of all types can mess with HF transceivers. Imagine your neighbor's blender interrupting your secret radio chat—it's like that!



Waterfall display of a modern radio showing pretty massive RFI on the 20m band

Another culprit is other transmitters operating on similar frequencies that can cause interference. It's like two radio DJs playing different songs at the same time—total chaos!

TAMING THE RFI BEAST

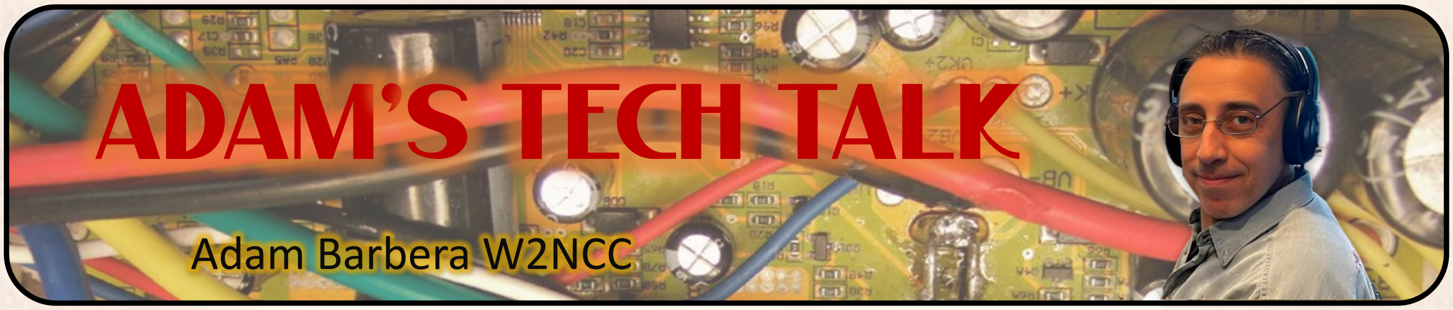
Fear not! We have tools to fight RFI and keep our radio signals crystal clear: **Ferrite Chokes**—these magical metal-like rings suppress common-mode currents (the troublemakers causing RFI). Slap them on cables, power cords, and antennas to hush the interference.

Baluns: Balancing unbalanced signals—like teaching a seesaw to share—reduces RFI. Use them at the antenna feed point for maximum effect.

Grounding Goodness: Proper grounding dissipates unwanted RF energy. Think of it as giving your radio a cozy electric blanket.

Filters: These superheroes block specific frequencies causing trouble. Install them on power lines or antenna feed lines.

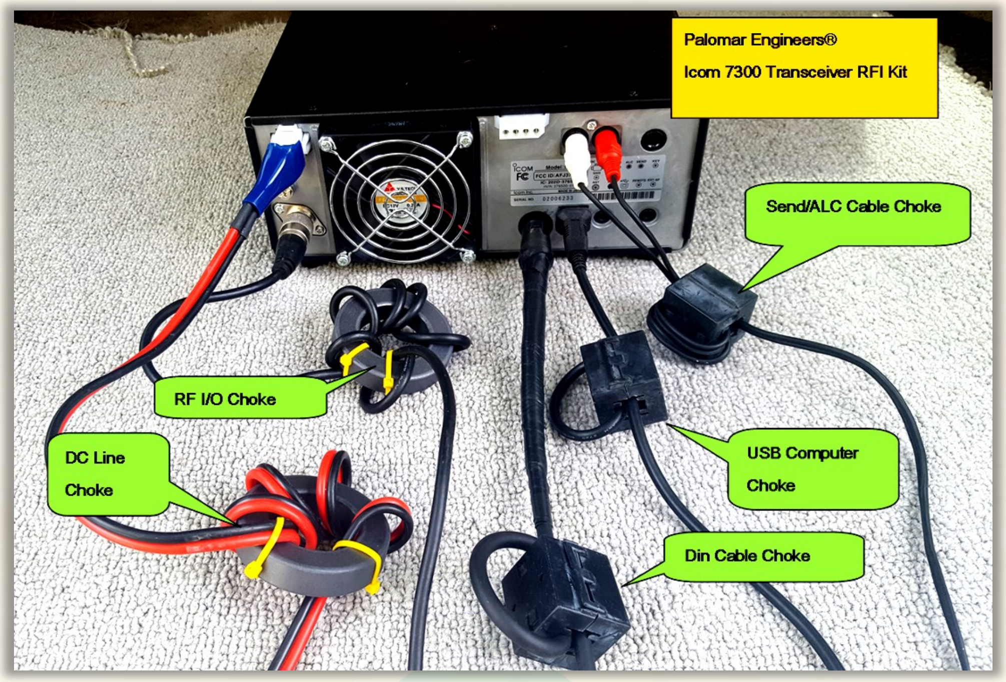
Shielding Secrets: Metallic enclosures or shielding materials protect sensitive equipment from external RF signals. It's like giving your radio a superhero cape! **Isolation:** Keep competing components separate within your radio setup. No more interference gossip between parts!



ADAM'S TECH TALK

Adam Barbera W2NCC

The Palomar Engineers RFI and Noise Reduction kit for many modern transceivers (IC-7300 shown as typical)



RFI Sniffer: Imagine a detective sniffing out the culprit. Use an RFI sniffer or spectrum analyzer to find the source and frequency of interference.

PALOMAR-ENGINEERS RFI KIT: THE HERO WE NEED

Enter the Palomar-Engineers RFI Kit! It's like a shield for your transceiver. Here's how it saves the day: **"RF Hot Mic" No More!** - poorly grounded antennas won't bother you anymore with RF burns on your lips from the mic. Linear amps feeding unbalanced antennas? Not a problem! **Neighbor-Friendly:** Your neighbor's TV won't glitch during your radio chat. No more angry glares at the garage door opener! **Peaceful Coexistence:** Your other radios, computers, and phones will thank you. No more radio drama!

Noise Floor Ninja: Say goodbye to receiver noise. These chokes block common mode currents, making your radio's ears happy.

Easy Peasy: No complicated modifications needed. Just snap these beads on your cables and let them work their magic.
SWR Issues Solved: These chokes *might* just be the cure. They even keep power lines in check!

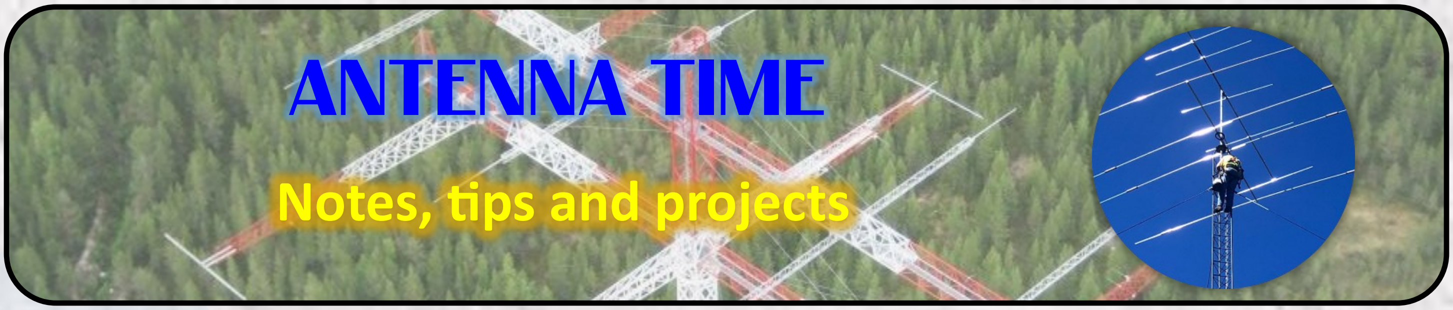
THE PRICE TAG

Guess what? This hero kit is under 100 dollars! Installing it is like giving your transceiver a spa day—it'll filter out unwanted frequencies and boost communication quality.

So, fellow radio enthusiasts, grab your Palomar-Engineers RFI Kit, fight the RFI villains, and enjoy clearer communication. Your Icom transceiver will thank you, and your radio adventures will be epic!

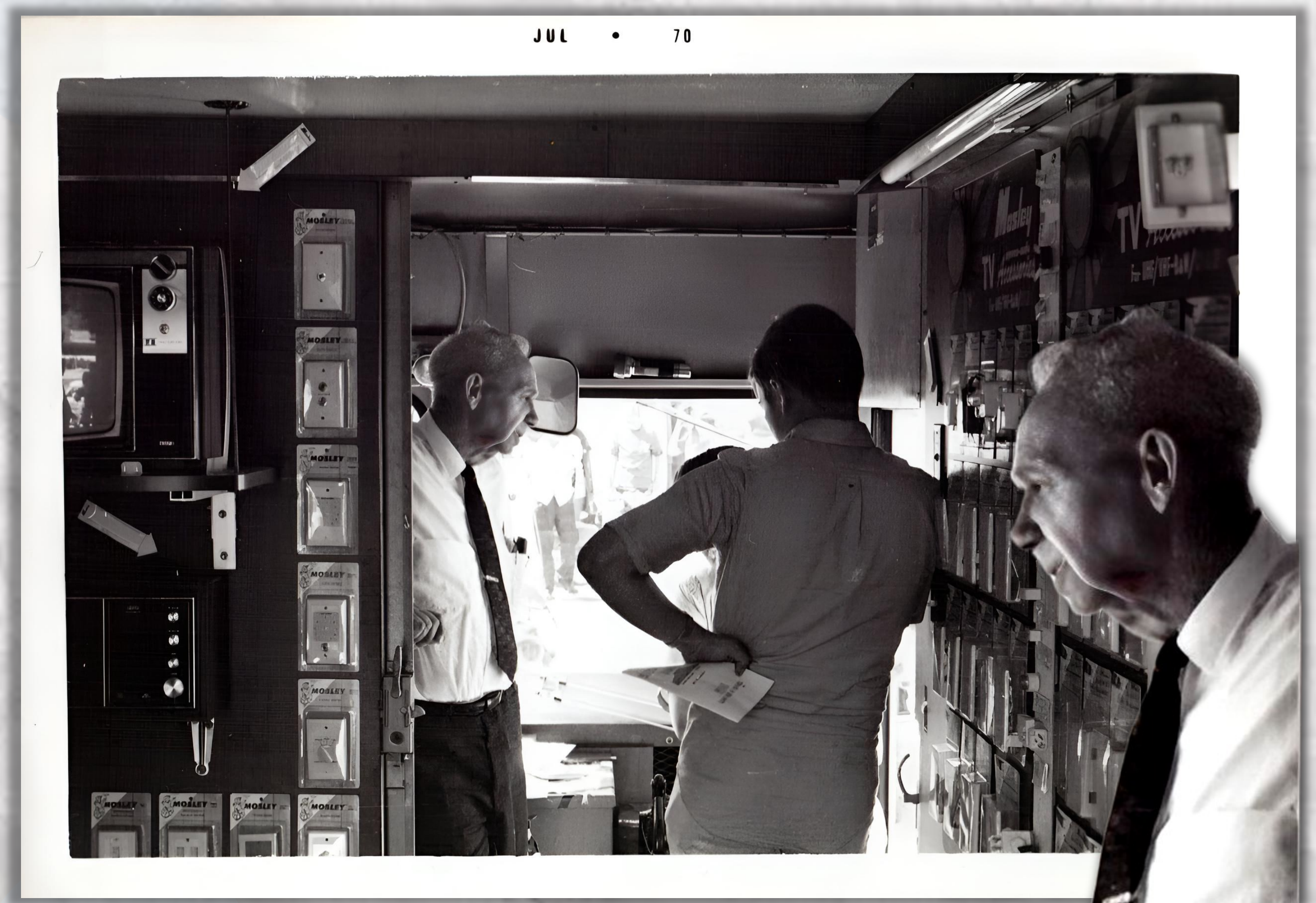
Link to Palomar Engineers RFI Kit—or just click the photo above to take you to their site.

Until next month—73! **Adam Barbera** W2NCC



ANTENNA TIME

Notes, tips and projects



Above and Inset: *Carl Mosley, W0FQY chatting with Larry Ziglar, WA7JPC of RCT inside the Mosley road-sales bus, July 1970 at the W7DK Hamfair event*

THIS MONTH'S ANTENNA COLUMN is pretty amazing for the historical value to the Radio Club of Tacoma (and I'm sure to many other clubs back then). Mosley Electronics founder Carl Mosely, W0FQY, took to the highways and byways of America in the late 1960s and early 70s in a custom-fitted bus showcasing his vast array of antenna products for amateur, government, and commercial radio work. The archive photo for this article features Mr. Mosley in his bus at the Radio Club of Tacoma Hamfair in July of 1970, showing off his wares to the local hams of

Do YOU have an Antenna project?

ANTENNA TIME

Notes, tips and projects

Western Washington, at the Sportsman's Chalet where the event was held.

Mosley was born in St. Louis, Missouri in 1902, and at age 16 at the very beginning of amateur radio adopted the fascinating new hobby based on spark transmitters, with coherer-based receivers. Once call signs started being assigned, he became 9BOJ, and ultimately W0FQY. Often referred to with the same endearing monicker as Hiram P. Maxim, Mosely for most of his life was referred to as "The Old Man". The company that bears his name, Mosley Electronics, Inc., began in the early 1940s making tube socket adapters and other specialty products for radio amateurs, under the name Mosley Electronic Specialties. The nascent stage of his business was first run from his basement. But soon, commercial TV stations were beginning to spring up all over the country, and Mosley soon moved into manufacturing a broad array of products to feed that hungry market—antenna wall plates, feed-through insulators, feedline connectors., etc.

Adam Blackmer, K7EDX, does final installation of a Mosley TA-33MW (below a 6m Yagi) in September 2020 at W7UUU

By 1951, the company had grown and incorporated under the name it bears today, Mosley Electronics, Inc. based in St. Louis. Mosley's fertile mind for development and locating markets drove expansion into military and industrial antenna products, including specialized antennas for receiving WWV time signals.

But the true explosion into the world of amateur radio products happened in 1955, when the company introduced the first commercially viable high-performance amateur radio Yagi-Uda design antenna dubbed the "Trap Master" with the model number that remains to this day: The TA-33. This antenna endures to the present as a truly high-performance antenna that's not too expensive, easily assembled, and has a decades-long track record of survival under the harshest of conditions.

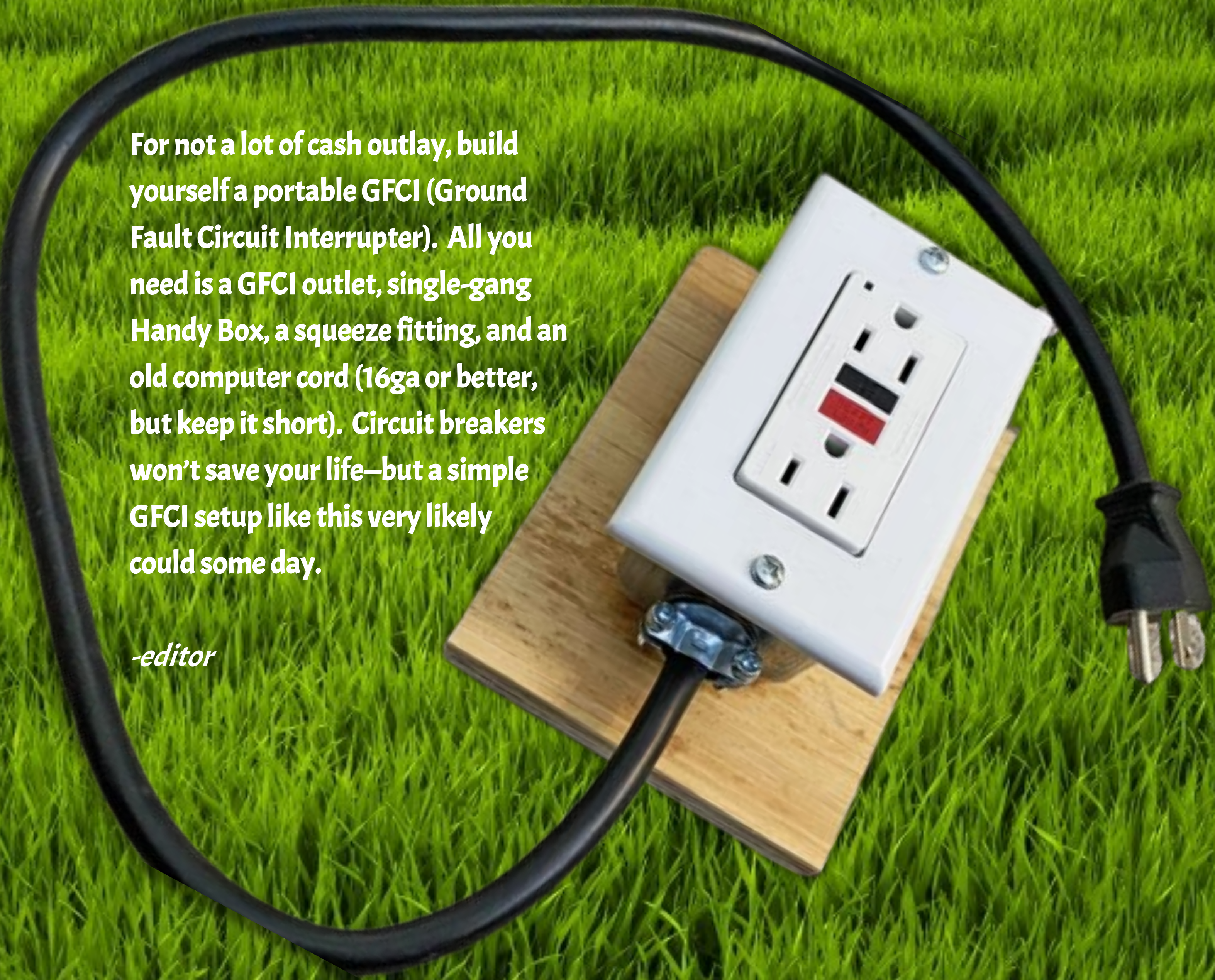
While Mosley Electronics has developed many more antenna series' over the years, it's the TA-33 and it's variations (including the Classic series) that truly are the heart and soul of Mosley's amateur products. Mr. Mosley passed away in 1986 but his legacy lives on in the amateur and commercial radio world and will remain so for a long time. The inset photos in the header, and on this page are the author's own TA-33MW during installation back in 2020 (now replaced with a SteppIR but not because the TA-33MW was bad - I just wanted more bands!) ■ *-editor*

Do YOU have an Antenna project?

AROUND THE SHACK & SHOP

Little tips for when you get a round TUIT!

Planning work outside or in a damp location?



For not a lot of cash outlay, build yourself a portable GFCI (Ground Fault Circuit Interrupter). All you need is a GFCI outlet, single-gang Handy Box, a squeeze fitting, and an old computer cord (16ga or better, but keep it short). Circuit breakers won’t save your life—but a simple GFCI setup like this very likely could some day.

-editor

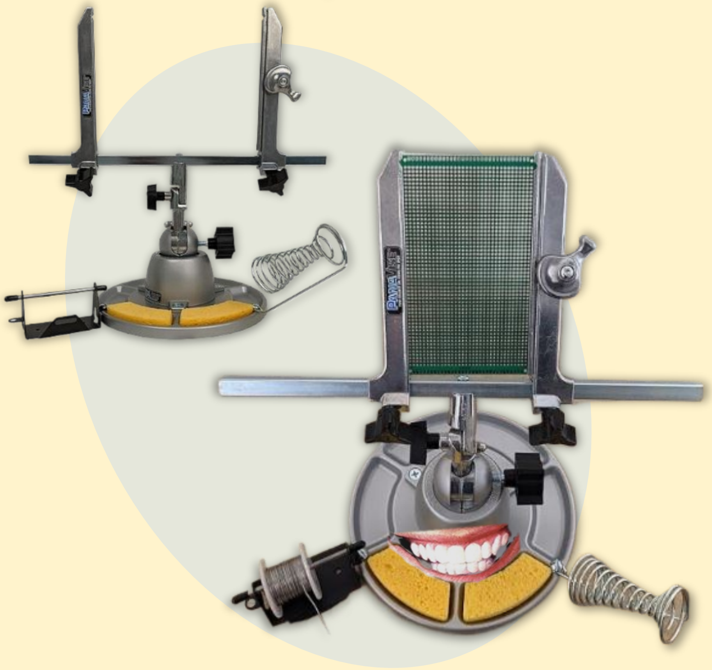
AROUND THE SHACK & SHOP

Little tips for when you get a round TUIT!

Every ham service shop needs this!

IF YOU DO ANY WORK at all on circuit boards on your bench, you really should consider a circuit board vise system. This is a special adaptation of a basic bench vise that allows the firm solid support of a PC board to allow you to work on both sides easily. It's also great for assembling small PCB-based kits, and for troubleshooting problem boards where you need to work on both sides at once. Really nothing else can fill this need… they are readily available on sites like Amazon but the best IMO is the [Panavise.]

■ *-editor*



Upcoming Ham Fests in the area

April 13. N7YRC Tailgate Party, Union Gap, WA. **Yakima Valley Emergency Management, 2403 S. 18th St., Union Gap, WA.** ***This is an ARRL Sanctioned Event.*** **https://www.arrl.org/hamfests/n7yrc-tailgate-swapmeet**

April 20. Kamiah Hamfest. American Legion Hall 618 Main St. Kamiah, ID. ***This is an ARRL Sanctioned Event.*** **https://www.3riversarc.club**

April 21. Comox Valley ARC Radio and Electronics Swap Meet. Comox, BC https://www.comoxvalleyamateurradio.ca/swap-meet Contact Brian, VE7RD, sells795@telus.net or 250-218-2911

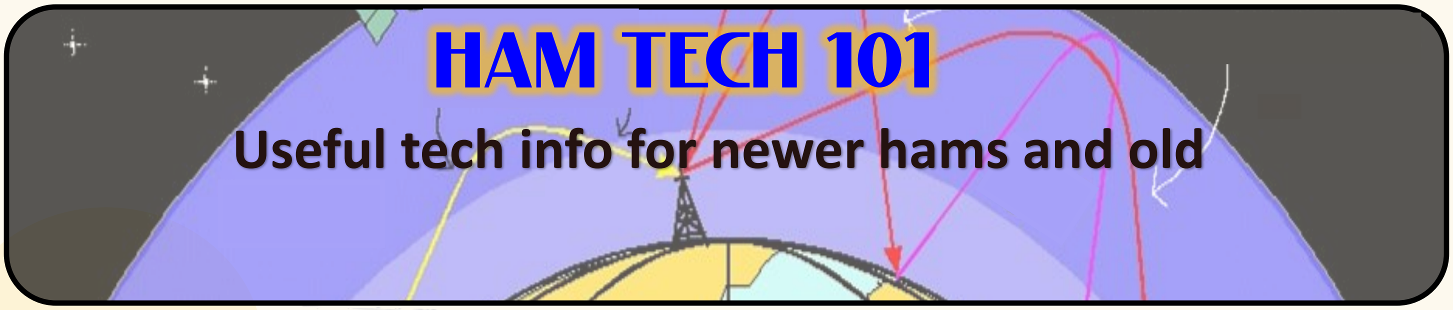
May 4th. Star Ham Radio Swapmeet in Star, Idaho. https://www.starhamradio.com/

May 4th. Spout Springs Repeater Association Swapmeet. 9 AM at Confluent, 285 Williams Blvd, Richland, WA 99354. Flyer in PDF. Contact Alex Archer at events@SSRA.net

Source: http://www.n7cfo.com/

Got a shack or shop tip? Send it in!

email loggersbark@gmail.com



HAM TECH 101

Useful tech info for newer hams and old

VOICE MODULATION for SSB

This column is reprinted with permission of AF5NP
from his blog www.NEWHAMS.info
References to FCC question numbers may be out of
date but the content will still be accurate

In the last post we explored voice modulation and learned that AM and FM are the two primary modes. We also noted that single sideband (SSB), a variant of AM, is the dominant form of voice communication on the ham bands below 50 MHz. This post will delve into the details of SSB.

G2A05-2019: Which mode of voice communication is most commonly used on the HF amateur bands?
Single sideband

SSB is important because it significantly improves the plain AM signal in both efficiency and bandwidth.

G2A06-2019: Which of the following is an advantage when using single sideband, as compared to other analog voice modes on the HF amateur bands?
Less bandwidth used and greater power efficiency

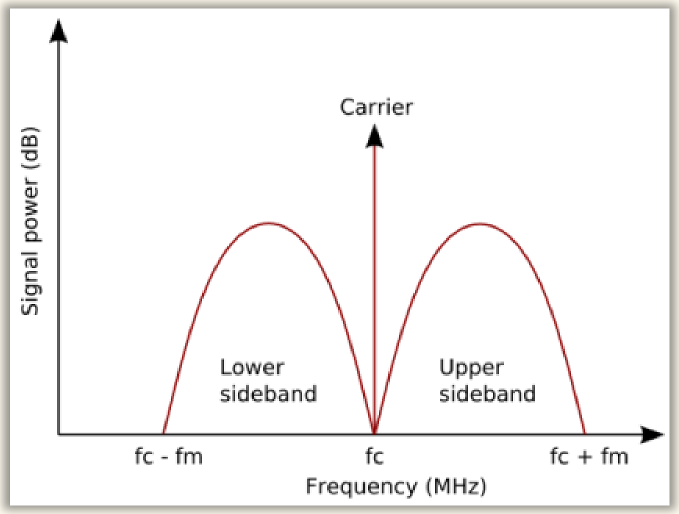
In context of voice modulation bandwidth means the range of frequencies the signal occupies. In general, wider bandwidth means higher audio quality but less efficiency, and vice versa.

T8A09-2018: What is the approximate bandwidth of a VHF repeater FM phone signal?
Between 10 and 15 kHz

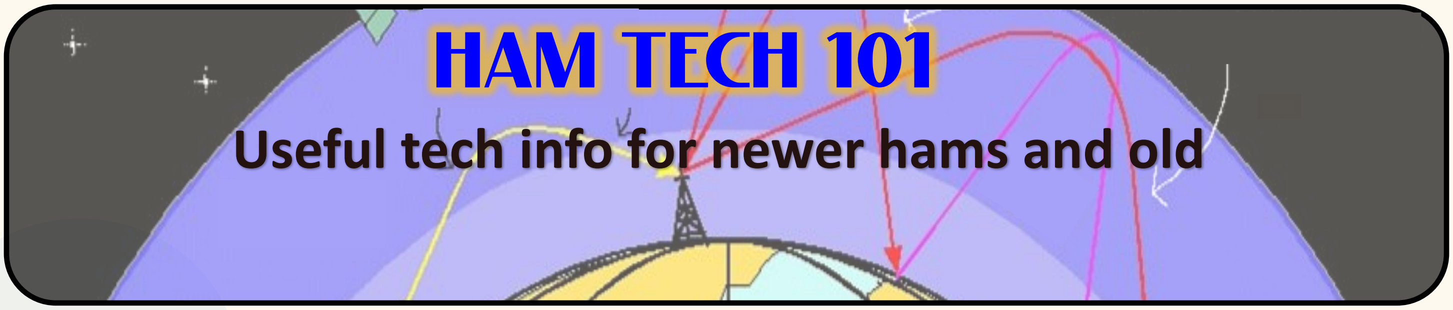
T8A08-2018: What is the approximate bandwidth of a single sideband (SSB) voice signal?
3 kHz

T8A07-2018: What is an advantage of single sideband (SSB) over FM for voice transmissions?
SSB signals have narrower bandwidth

The SSB signal is generated using AM but before it is transmitted the carrier and one sideband are removed. A diagram of an AM signal helps visualize how it starts:



SSB transmission reduces the power required (more efficient) and occupies a smaller slice of the RF spectrum (narrower bandwidth, ~3kHz), when compared to AM.



HAM TECH 101

Useful tech info for newer hams and old

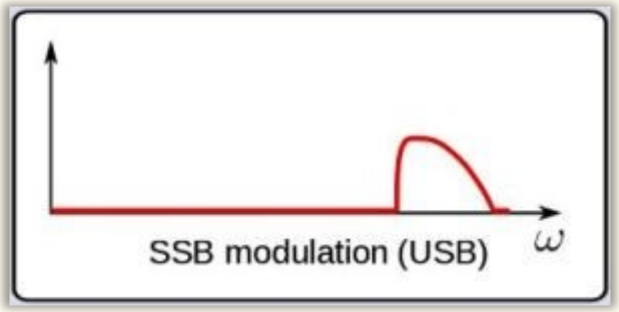
G2A07-2019: Which of the following statements is true of the single sideband voice mode?
Only one sideband is transmitted; the other sideband and carrier are suppressed

The transmitter circuitry is essentially AM but adds carrier and sideband filters at nominal cost. The SSB receiver is more complex and expensive than AM because it must reconstruct the missing (mirror image) sideband to create a full voice signal, as well as replace the carrier with a local signal.

Because it has to recover the opposite sideband the SSB receiver is somewhat sensitive to tuning to make the voice sound normal or natural. You will find that voices sound quite different in clarity and pitch when tuning around the transmit frequency. A common reaction to hearing off-tune SSB is that it sounds like a quacking duck. A great video demonstrating some of the nuances of SSB sound and tuning can be found in the links at the bottom.

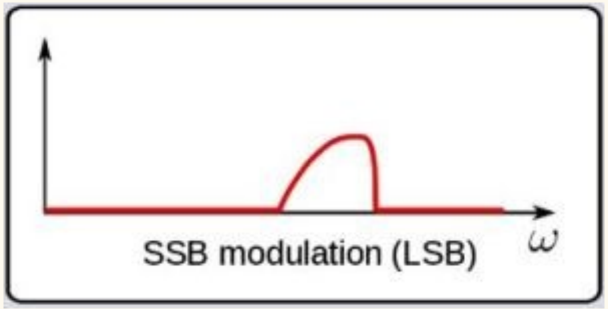
T4B06-2018: Which of the following controls could be used if the voice pitch of a single-sideband signal seems too high or low?
The receiver RIT or clarifier

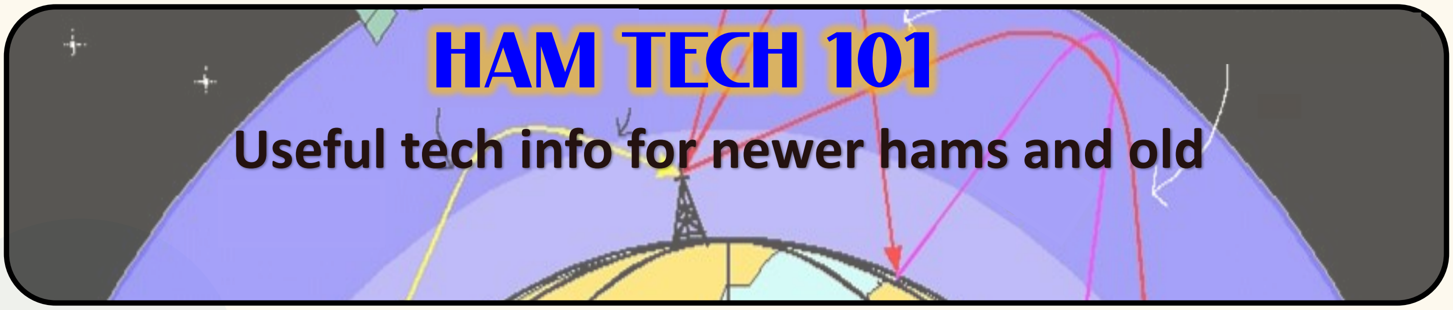
So SSB transmits only one sideband, but which one, you ask? The answer is either. When the upper sideband is transmitted and received, the operation is called upper sideband (USB).



T8A06-2018: Which sideband is normally used for 10 meter HF, VHF, and UHF single-sideband communications?
Upper sideband

Conversely, when the lower sideband is used, the operation is called lower sideband (LSB).





HAM TECH 101

Useful tech info for newer hams and old

G2A02-2019: Which of the following modes is most commonly used for voice communications on the 160-meter, 75-meter, and 40-meter bands?
Lower sideband

In ham radio either one is legal to use in the phone portion of the band plan but by [convention](#) LSB is used below 10MHz, and USB is used above 10MHz (note that the 10MHz/30m band in the US does not allow voice modes).

SSB transceivers will have a mode selector for either LSB or USB voice operation (phone). If the sideband selection does not match the transmitted signal you will hear garbled speech but not be able to understand anything.

SSB is commonly used by hams on HF bands but may be used above 50 MHz with a multi-mode VHF/UHF radio. Great article here.

T8A03-2018: Which type of voice mode is most often used for long-distance (weak signal) contacts on the VHF and UHF bands?
SSB

There are a few interesting references in the links below to get more detail about SSB, if you are so inclined.

Some Useful Links

Tuning Single Sideband (SSB)
KE0OG YouTube Video

Understanding Single Sideband (SSB)
Ham Radio School

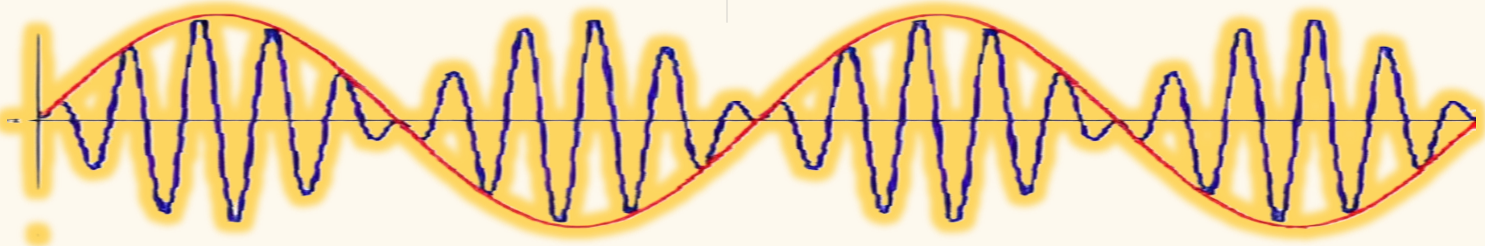
SSB – What is Single Side band?
HamUniverse

Single Sideband Modulation, SSB
Electronics Notes

Single Side-Band Radio
FAS.org

-Jim Peisker, AF5NP

Used here with permission



GEAR

Guest Columnist: Dave Jensen W7DGJ

SUMMER ISN'T NECESSESARILY "antenna time" in Arizona. But, as any ham knows, it doesn't matter whether it's snow in Michigan or 110 degrees in the sun if you've got an antenna issue. When that homebrew dipole wasn't doing the job any longer, I decided to just buy something and get it up quickly. I hate to admit it publicly, but sometimes my need to get on the air is far stronger than my pleasure in fabricating antennas. While the old dipole was fine for my "100 Watts and a Wire" station, when operating at legal limit there would be some serious reconfiguring necessary.

A tower isn't in the cards because of my promise to my XYL that I would keep all my antennas "mounted on natural objects," and as camouflaged as possible. Picture an antenna mast springing out of a prickly shrub that stands no more than four feet high, and that will give you some idea of what I am up against in my piece of heaven here in the desert. All of our trees are *extremely* prickly and not the kind you see kids climbing in the summer. So, I engaged a local handyman to assist me with this installation. That's when I learned that you need to watch closely when even the handiest of the handymen are engaged in ham radio projects.

After doing the research, I had decided to buy an antenna that is built for a setup like mine, the Buckmaster DX-OCF-HP (sold through both DX Engineering and Ham Radio Outlet). This antenna offers a 3000-watt rating with minimal height requirements . . . 32 feet in the center and 10 feet on the ends. When it arrived, I was happy to see that it was built like something for the military. The center balun was very heavy duty (and physically heavy as well), and the 135' of wire and remaining components looked equally brawny. I swallowed my pride and contacted my handyman friend Gabriel, who has helped me with many household projects.

50 Ohm
3000W
8+ ft.

We had secured both ends of my new antenna (135 feet long) to their respective positions on Juniper trees at the required 10' mark and installed a middle post which had now stabilized in its pad at 32'. I handed Gabriel a bottle of bright green Liquid Electrical Tape and described how I wanted to protect the coax connection under the Buckmaster's balun. I went about digging a trench, confident that my handy friend would be fine at the top of his ladder with the sole job of getting a good waterproof seal on the PL-259.

A few minutes later, I looked back and saw that Gabriel had unscrewed the PL-259 connection and was holding my $200 run of coax in his hands while he painted the LMR-400 termination, *inside and out*, with bright green liquid tape. I could have soldered on three new PL-259's in the time it took me to clean out that green gunk from inside the formerly shiny new connector. From that moment on, I now handle all electrical elements of my antennas.

I'm enjoying the Buckmaster a great deal, but have since found another OCF (built just as well) produced by Palomar Engineers that could have saved

GEAR

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me some significant coin. And for you antenna gurus, *yes* I know that OCF's often produce problems in the shack due to common mode. After playing with both the Buckmaster and the Palomar to reduce those issues, I wouldn't trade them for anything.

73 for now, Dave W7DGJ

***Dave Jensen, W7DGJ**, was first licensed in 1966. Originally **WN7VDY** (and later **WA7VDY**), Dave operated on 40 and 80 meter CW with a shack that consisted primarily of Heathkit equipment. Dave loved radio so much he went off to college to study broadcasting and came out with a BS in Communications from Ohio University (Athens, OH). He worked his way through a number of audio electronics companies after graduation, including the professional microphone business for Audio-Technica. He was later licensed as W7DGJ out of Scottsdale, Arizona, where he ran an executive recruitment practice (CareerTrax Inc.) for several decades. Jensen has published articles in magazines dealing with science and engineering. His column "Tooling Up" ran for 20 years in the website of the leading science journal, SCIENCE, and his column called **Trials and Errors: Ham Life with an** Amateur continues to be a popular read each month on QRZ.com*

Read Dave's column at:

https://www.qrz.com/trials-and-errors

YouTube
OFF-CENTER FED ANTENNAS
Presented by Ted Edwards (W3TB)
CLICK HERE
35:41

Dave's column this month gives us a great opportunity for some Ham 101 Training time, with two of the best presenters on YouTube. Top is Ted Edwards, W3TB with an excellent "recorded live" presentation from about a year ago. Below is another outstanding ham radio YouTuber, Jim Heath, W6LG. Just click the images to launch –editor

High Voltage
Feed Point
High Current
High Voltage
W6LG
CLICK HERE
Feedline Co
Off Center Fed Anten
W6LG
Jim Heath

If I had a computer would I still use a mouse?

QRZ NEWS YOU CAN USE

QRZ.com Updates from Dave W7UUU

Head Moderator & Director of Forums for QRZ.com

W7UUU

SWAPMEET SAFETY

THE WORLD TODAY is rife with unseen criminals who want nothing more than to steal your money. With the extent of the modern internet, their reach is bigger than ever and their numbers are vast. Spanning almost entire continents, networks of thieves operate from Morocco, Nigeria, South Sudan, Poland, Romania, Vietnam, and many other countries.

When using any Swapmeet platform—QRZ, Facebook Marketplace, QTH.com, eHam.net—it makes no difference—they are there—lurking and waiting for you to screw up and lose your hard-earned cash never to be seen again.

In the world of ham radio, and the QRZ Swapmeet in particular, there are things you can and should be doing to prevent being a victim:

1. NEVER fall for a phishing scam. NO ONE from QRZ will *ever* send you an email, PM or text requesting you to "verify your account". NEVER enter your password into any communication from any source. If you think something is wrong, simply go to www.QRZ.com and log in normally.
2. TURN ON YOUR 2FA! (Second Factor Authentication) where you either use your smart phone or an app on another device to authenticate yourself when the system demands it. If everyone used 2FA, it wouldn't matter if a scammer got your password—without having your cell phone they cannot log in because their computer will trigger the system as a "new device" and the QRZ system will demand you confirm with 2FA. Which they can't do.
3. If you agree to buy something, from ANYONE on any site—QRZ or otherwise—DEMAND A VOICE PHONE CALL. Scammers will never do this. Ever. First off, even if they speak English, they aren't hams and you'll tell right away they don't know squat about what you're buying. But MOST scammers will just vanish when you ask for this. That's because they don't speak English. They can ONLY talk to you using Google Translate so will only use email or private messaging. I can't tell you how many times I've had users report that the scammer sent the message saying "I have a health issue and can't speak right now so please just use email". It's always a lie. If someone tells you this, it's a scam.
4. Never pay with PayPal "Friends & Family". Scammers will almost always demand you pay with this method because there is absolutely no recourse through PayPal to get your money back. Not all sellers who demand F&F are scammers…. It's fairly common for sellers to ask for this method so they can dodge PayPal fees or IRS reporting of the sale. But regardless, if you have a problem with the item, you have no recourse. It's just like sending cash or a money order. Many buyers think that "well, it's PayPal so I'm always safe" and that's what the scammers play on. You are NOT safe using F&F if you have any issues, the item never shows, etc. No refunds. Ever.

Those are the big ones. Obviously the scammers will always try every way they can to fool you and may well come up with something new.

At QRZ a new policy goes into effect on April 1, 2024 that calls for sellers to provide fairly detailed proof they have the item. The details of the new rule can be found in the Ham Gear for Sale forum (you must be a subscriber to view the Swapmeet—another measure that helps limit the scammers and keep them out) if you want to read them. The essence of it is the moderators will be able to spot fake ads much faster, and pull them down sooner, hopefully before someone gets taken.

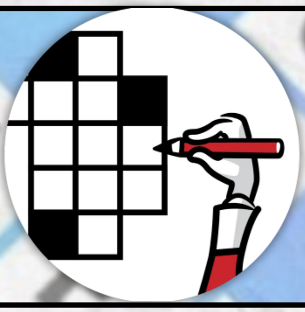
Will it work? Only time will tell. The scammers are many and they are always clever figuring out the next way to fool you into giving them your money.

Until next month, this is some "QRZ news you can use"

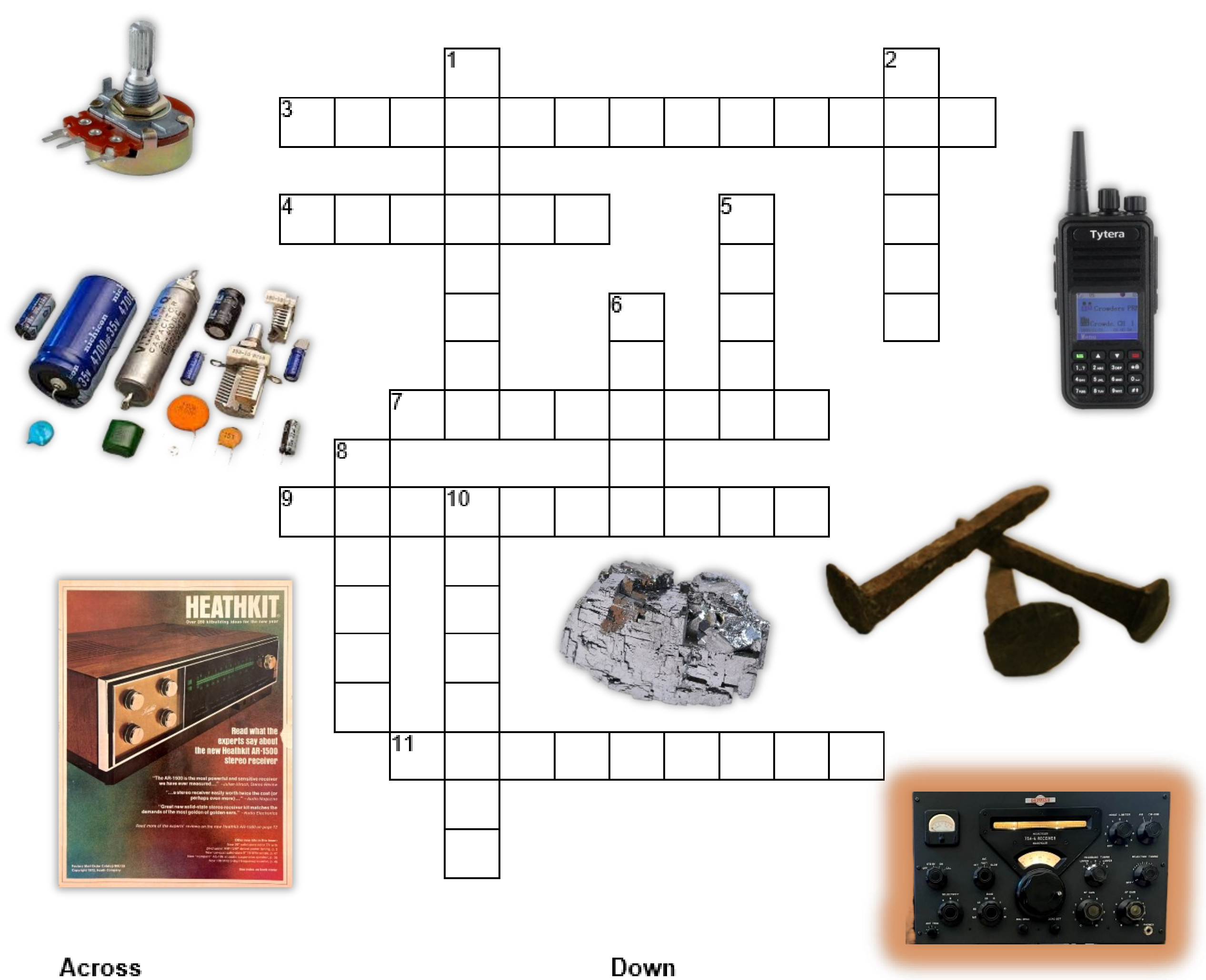
Dave W7UUU

FUN AND GAMES!

Crosswords, Word Search, etc.



Crossword Challenge! Print this page to play!



Across
3. Another name for a variable resistor
4. A metal that was frequently used for a detector
7. If you were a 75A-4 what kind of rig would you be?
9. A guy named Oscar made some great receivers
11. Another name for a capacitor

Down
1. The antenna type that you could drink
2. Heathkit company was based in __________ harbor
5. The last name of the W7OS radio museum call sign
6. Another name for antenna
8. The first name of the guy that Alfred Vail worked for
10. TYT radios copied much of the software from American radio company

FUN AND GAMES!

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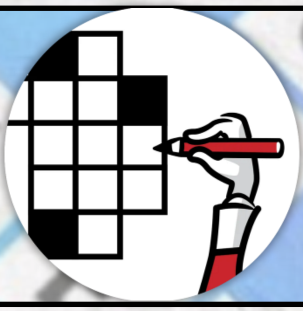

Answer Key… but don't cheat!

			1 B								2 B	
3 P	O	T	E	N	T	I	O	M	E	T	E	R
			V								N	
4 G	A	L	E	N	A			5 S			T	
			R					P			O	
			A			6 A		I			N	
			G			R		K				
		7 R	E	C	E	I	V	E	R			
	8 S					A						
9 H	A	M	10 M	A	R	L	U	N	D			
	M		O									
	U		T									
	E		O									
	L		R									
		11 C	O	N	D	E	N	S	E	R		
			L									
			A									

HEATHKIT
Read what the experts say about the new Heathkit AR-1500 stereo receiver

Across

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Late Breaking IMPORTANT Club News

NEWSSTAND

W7UUU editor

ACCEPTED

MARCH 28, 2024—From the ARRL

Bob Purdom, AD7LJ, appointed as New ARRL WWA Section Manager!

On April 1, 2024, the ARRL Western Washington Section will have a new Section Manager. I am pleased to introduce to the section's membership, Robert (Bob) M. Purdom, AD7LJ. WWA Section Manager Jim Pace, K7CEX appointed Bob to serve as an Assistant Section Manager on April 15, 2009. The best way to describe him is, he is a ham's ham. Bob is a veteran of the United States Air Force and United States Navy. He is a retired naval officer and telecommunications engineer for the State of Washington, where he did communications planning, worked on LMR mobiles and base stations, as well as Lahar, Earthquake and Tsunami alert & warning systems. Bob has been a ham radio operator for 19 years. He is a life member and very active in the Radio Club of Tacoma and a member of the Capital Peak Repeater Group. Please join me in welcoming Bob, AD7LJ, as the new Section Manager for the Western Washington Section. I will become an Assistant Section Manager and working with Bob in several project areas including membership recruiting, EMCOMM intra/inter section cooperation, working with the section's tribal liaison to develop and implement an EMCOMM support system for our tribal neighbors and other tasks assigned by the section manager. Thank you for your confidence and trust in allowing me to be the WWA SM for the past 11 years. I will continue to be a responsible ARRL leader for the section.

ARRL Western Washington Section
Section Manager: Monte L Simpson,
W7FF w7ff@arrl.org

APPROVED

CLOSING REMARKS

ABOUT THIS PUBLICATION

The Logger's Bark is the official publication of the Radio Club of Tacoma and is published by RCT, PO Box 11188, Tacoma, WA 98411. The Radio Club of Tacoma is a non-profit corporation as defined by law. All proceeds will be used exclusively for charitable and educational purposes. The Radio Club of Tacoma's Club House is located at 1249 Washington St, Tacoma, WA 98405, phone: 253-759-2040.

EMAILING OFFICERS

To contact any club officer, simply send an email to their call sign @W7DK.org

CONTRIBUTIONS OF ARTICLES & PHOTOS

We WELCOME contributions of articles, guest editorials, blurbs, Hints-and-Kinks, shack photos, QSL cards, memorable contacts, anything of interest to your fellow members. Submit your materials via email to: loggersbark@gmail.com or via US mail to PO Box 11188, Tacoma, WA 98411

RADIO CLUB OF TACOMA REPEATERS

Central Tacoma 2m:	**147.28 + PL Tone 103.5**
Central Tacoma 70cm:	**440.625 + PL Tone 103.5**
Crawford Mountain:	**147.380 + PL Tone 103.5**
North Tacoma:	**145.21 - PL Tone 141.3**

MEMBERSHIP INFORMATION

- FULL (licensed) and ASSOCIATE (non licensed) membership is $35 per calendar year or $30 for Licensed Seniors (65 and over)
- Licensed family members at same address pay $20 each for the first two and are free for the third, fourth, and so on.
- Full-time students, licensed or non licensed, up to age 25 are $20 per year.
- Fees are applicable for the calendar year: January to December
- Lifetime membership is 20 times the yearly fee you are eligible for. Lifetime memberships are calculated based on the FULL and ASSOCIATE rates.
- Visit www.w7dk.org For the latest and most current information on events and activities

MEMBERSHIP APPLICATION

CLICK HERE!

HAVE A SUBMISSION FOR OUR NEXT ISSUE?

loggersbark@W7DK.org

BOARD OF DIRECTORS

Board-approved minutes from the most recent meeting

AT THE REQEST of the Club Secretary, and as a requirement by the Board of Directors, and in light of The Logger's Bark now being published on the 1st of every month instead of the end of the month, the minutes must now be resynchronized so that only *approved* minutes are published. Therefore, no minutes will appear in this April issue. In May, the March minutes as approved at the April meeting will appear and so on moving forward.

Also, the minutes will now appear at the end of the Bark, but fully "one click" indexed to the table of contents on the second page for quick access.

■ *-editor*

GENERAL MEETING

Minutes from last month's meeting

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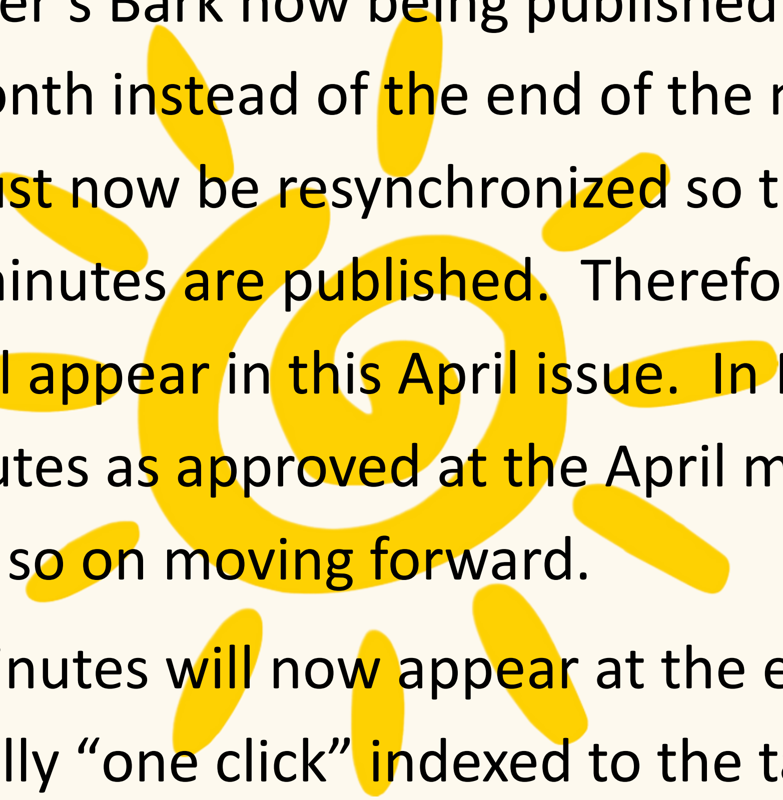

- *-editor*